KYOCERA

FS-C2026MFP+/FS-C2126MFP+
FS-C2526MFP/FS-C2626MFP
Printer Driver

User Guide

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Examples of the operations given in this guide support the Windows 7 printing environment. Essentially the same operations are used for Microsoft Windows Vista, Windows XP, Windows Server 2003, and Windows Server 2008 environments.

User Interface screen captures shown in this guide may differ depending on your printing system.

This user guide and its contents were developed for the 5.2 driver.

Models supported by the KX printer driver

FS-C2026MFP+

FS-C2126MFP+

FS-C2526MFP

FS-C2626MFP

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Table of Contents

Chapter 1 Installation

Preparing to Install the Driver 1-1
Selecting an Installation Method 1-1
Installing Utilities 1-2
Upgrading Driver Components 1-2
Express Installation 1-2
  Installing in Express Mode 1-2
Custom Installation 1-4
  Installing in Custom Mode with a Network Connection using Discover 1-4
  Installing in Custom Mode with a USB Connection using Discover 1-5
  Installing in Custom Mode with a Network Connection using Custom Select 1-6
  Installing in Custom Mode with a USB Connection using Custom Select 1-8
Optional Printer Components 1-9
  Installing Optional Printer Components 1-9
The Add Printer Wizard 1-9
  Installing a Printer Driver in Windows 7 and Windows Vista 1-9
  Installing a Printer Driver in Windows XP 1-10
Printer Driver Settings Access 1-10
  Changing the Default Driver Settings 1-10

Chapter 2 Device Settings

Accessing Device Settings 2-1
Device Options 2-1
  Setting Device Options 2-1
Auto Configure 2-1
  Enabling Auto Configuration 2-2
Memory 2-2
  Setting the Memory 2-2
RAM Disk 2-3
  Setting RAM Disk 2-3
Administrator Settings 2-3
General 2-3
  Show Quick Print Tab 2-4
  Send Count Information 2-4
  Send Application Name 2-4
  Associate Profile with Application 2-4
  Password Protect Administrator Settings 2-4
  SNMP 2-5
Lock Settings 2-6
  Lock Settings Options 2-7
User Login 2-7
  User Login Options 2-8
  Printing with User Login 2-8
Job Accounting 2-9
  Job Accounting Options 2-9
  Printing with Job Accounting 2-10

User Settings 2-10
Identification 2-10
Units 2-11
Language Preference 2-11
PDL (Page Description Language) 2-11
PDL Options 2-12
PDF Options 2-13
XPS Driver 2-15
Compatibility Settings 2-16
Media Source Enumeration 2-16
Ignore Application Collation 2-16
Combine Source and Media Type Lists 2-17
Removing a Plug-in 2-17

Chapter 3 Quick Print

Quick Print Options 3-1
Common Printing Options 3-1
Color Mode 3-2
Collate 3-2
Duplex Printing 3-2
Multiple Pages per Sheet 3-3
Edit Quick Print 3-3
Profiles 3-4
Selecting a Profile 3-4
Saving a Profile 3-4
Editing a Profile 3-5
Importing a Profile 3-5
Exporting a Profile 3-5
Application Based Printing 3-6

Chapter 4 Basic

Basic Settings 4-1
Source and Media Types 4-2
Print Size and Page Size 4-2
Creating a Custom Page Size 4-3
Printing with Custom Size Pages 4-3
Duplex Printing 4-3
Printing in Duplex Mode 4-4
Collate 4-4
Printing Collated Documents 4-5
Printing in Color, Black & White, and EcoPrint 4-5
Print Preview 4-5
Previewing a Print Job 4-5
Kyocera Logo 4-6
Displaying Version Information 4-6
Displaying Plug-in Information 4-6

Chapter 5 Layout

Multiple Pages per Sheet 5-1
Printing Multiple Pages per Sheet 5-1
Scaling 5-2
Setting Scaling on the Page 5-2
Gutter 5-2
Creating a Gutter 5-2
Booklet 5-3

Printing a Booklet 5-3
Poster 5-3
Printing a Poster 5-4

Chapter 6 Imaging

Print Quality and EcoPrint 6-1
Selecting Print Quality 6-1
Selecting EcoPrint 6-1
Trapping 6-2
Gloss Mode 6-2
Fonts 6-2
Font Settings 6-3
Selecting Font Settings 6-3
Font Substitution 6-3
Disable Device Fonts 6-4
Graphics 6-4
Selecting Graphics Settings 6-4
Pattern Scaling 6-5
Inversion Settings 6-5
Optimization Settings 6-5
CIE Optimization 6-6
Image Compression Mode 6-6
Color Mode 6-6
Printer Profile 6-6
Color Correction 6-7
Setting a Default Color Profile 6-8
Color Adjustment 6-9
Selecting Custom Color Adjustment 6-9
Adjusting HSL (Hue, Saturation, Lightness) 6-9
Adjusting Color Balance 6-10
Color Conversion 6-10
Black & White Adjustment 6-11
Adjusting Black and White Settings 6-11
Text and Graphics Effects 6-11

Chapter 7 Publishing

Cover Mode 7-1
Printing Covers 7-1
Cover Mode Options 7-2
Choosing Cover Media 7-4
Page Insert 7-5
Printing Page Inserts 7-5
Page Insertion Options 7-6
Transparency Interleaving 7-6
Inserting Backing Sheets Between Transparencies 7-7

Chapter 8 Job

Job Storage (e-MPS) 8-1
Job Storage (e-MPS) options 8-1
Proof and Hold 8-2
Printing a Proof and Hold Job 8-2
Private Print 8-2
Storing a Private Print Job 8-3
Job Name 8-3
Don’t Use Application Name 8-3

Overwrite Job Name 8-3
Selecting a Job Name 8-4

Chapter 9 Advanced

Prologue/Epilogue 9-1
Selecting a Prologue/Epilogue File 9-1
Editing a Prologue/Epilogue File 9-1
Deleting a Prologue/Epilogue File 9-2
Assigning a Prologue/Epilogue File 9-2
Unassigning a Prologue/Epilogue File 9-2
Specifying the Insertion Point 9-2
Watermark 9-3
Adding or Editing a Watermark 9-3
Selecting Pages for Watermark 9-4
Security Watermark 9-5
Adding or Editing a Security Watermark 9-6
Adjusting Security Watermark Calibration 9-7
Selecting Pages for Security Watermark 9-7
Color Optimizer 9-8
Optimizing RGB Color for Printing 9-8
Status Monitor 9-9
Selecting Status Monitor Options 9-9
Setting Status Monitor Preferences 9-10
EMF Spooling 9-11
Selecting EMF Spooling 9-11
Enable Client Profile 9-11

Glossary i

1 Installation

A printer driver is an application that manages communication between a printer and your computer. Once installed, the printer driver settings must be configured in the printer **Properties** and **Printing Preferences**.

Note: In Windows operating systems, you must be logged in with administrator rights to install the printer driver.

Preparing to Install the Driver

This section describes the initial steps to take before you install the printer driver, and based on your operating system, the next procedure you can follow.

1. Turn on the computer and the printer.

   In Windows 7 and Windows Vista with a USB connection, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the driver for an expanded feature set. In Windows, if the **Found New Hardware Wizard** dialog box appears during the installation process, click **Cancel**. If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

2. Insert the **Product Library** disc into the disc drive. The **Main Menu** appears.

   Note: If the **Product Library** fails to start after inserting it into the disc drive, use Windows Explorer to locate **Setup.exe** on the local drive and double-click to open.

3. Click **View License Agreement** to read the license agreement.

4. Click **Accept** to proceed.

5. To begin the installation, click **Install Software**.

   Note: If the **Windows Security** warning dialog box appears at any point during the installation process, click **Install this driver software anyway**.

6. The **Installer** appears with several installation methods displayed.

Selecting an Installation Method

You can select **Express Mode** for a network or USB connection and the installation wizard will discover your printers. You can also select **Custom Mode** for a network or USB connection and either manually select installation packages and specify utilities or let the installation wizard discover your printer.

Express Mode Installation

Installing in Express Mode on page 1-2

Custom Mode Installation

Installing in Custom Mode with a Network Connection using Discover on page 1-4

Installing in Custom Mode with a USB Connection using Discover on page 1-5

Installing in Custom Mode with a Network Connection using Custom Select on page 1-6

Installing in Custom Mode with a USB Connection using Custom Select on page 1-8

Installing Utilities

On the **Installation Method** page, click **Utilities** to install printer utilities. You can also select utilities to install during the **Custom Installation** procedure.

Upgrading Driver Components

If the installation wizard detects older driver or utility components, the **Software Component Upgrade** page appears.

1. Choose the component to upgrade. Click **Next**.
2. Confirm your upgrade settings. To start the upgrade, click **Upgrade**.
3. When the upgrade completes, click **Next**. The **Installation Method** page appears.

Express Installation

Express Mode applies to driver installation for a USB or network connection only. The installation wizard discovers printers that are turned on, and connected by USB and network cable. In **Custom Mode**, you are able to select the installation packages and specify the port.

Installing in Express Mode

This section describes the express installation procedure of the driver software in Windows operating systems.

1. Ensure that your printer and computer are turned on and connected by USB or network cable.

Note: In Windows 7 and Windows Vista with a USB connection, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the KX Driver for an expanded feature set. In Windows, if the **Found New Hardware Wizard** dialog box appears during the installation process, click **Cancel**. If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

2 On the **Installation Method** page, click **Express Mode**.

3 The **Discover Printing System** page opens, searching for your printing system.

If Discover finds your printing system, select your model from the list and click **Next**.

If Discover does not find your printing system, a message appears. Remove and reinsert the USB or network cable, and ensure it is connected properly. Click **Refresh** to retry the discovery. If the system still cannot find your printing system, contact your system administrator.

4 Select **Use host name for port name** to use a host name for the Standard TCP/IP port. If the installation wizard still displays the IP address, contact your system administrator. *(Not available with a USB connection.)*

5 Click **Information** if you want to open a dialog box with details about IP Address, Host Name, Printer Model, Contact, Location, and Serial Number. Click **OK**. Click **Next**. *(Not available with a USB connection.)*

6 On the **Printer Settings** page, you can assign a name to your printing system.

Note: With a first time USB connection, the **Printer Settings** page does not appear.

You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

7 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

8 The **Installation Completed** page appears displaying the following driver options.

Print a test page

This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor

The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

Show Quick Print Tab

This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

Device Settings

Select the **Device Settings** check box to open **Device Settings** where you can choose installed options for your printing system. (The **Device Settings** check box appears only in Windows XP with a network connection.)

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Custom Installation

Custom Mode applies to driver installation for a USB or network connection. The installation wizard can discover printers that are turned on, and connected by USB and network cable, or you can manually select the driver from drivers that are available. You can specify the printer port, fonts, and the utilities you want to install.

Printer drivers that ship with Windows operating systems are called minidrivers. The minidriver is available separately for PCL and KPDL and provides basic support for your printer.

The **KX XPS DRIVER** is only available for printing systems used with Windows 7 and Windows Vista. The XPS driver is discussed in the *Device Settings* chapter. Minidriver functionality is not documented in this user guide.

Installing in Custom Mode with a Network Connection using Discover

This section describes the custom installation procedure of the driver software in Windows operating systems using a network connection.

1. Ensure that your printer and computer are connected to a network.

2. On the **Installation Method** page, select **Custom Mode**.

3. The **Discover Printing System** page opens searching for your printing system. The **Discover** button is automatically selected. A list of models appears. Click **Next**.

   If Discover does not find your printing system, a message appears. Remove and reinsert the network cable, and ensure it is connected properly. Click **Refresh** to retry the discovery. If the system still cannot find your printing system, contact your system administrator.

4. On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

   If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

5. On the **Printer Settings** page, you can assign a name for your printing system. You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

6. On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

Note: If the **Hardware Installation** warning dialog box appears, click **Continue**.

7 The **Installation Completed** page appears displaying the following driver options.

Print a test page

This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor

The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

Show Quick Print Tab

This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

Device Settings

Select the **Device Settings** check box to open **Device Settings** where you can choose installed options for your printing system. (The **Device Settings** check box appears only in Windows XP.)

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Installing in Custom Mode with a USB Connection using Discover

This section describes the custom installation procedure of the driver software in Windows operating systems using a USB connection. With **Discover**, all devices available for the driver installation are found automatically. This is the recommended Custom Mode USB installation method.

1 Ensure that your printer and computer are turned on and connected using a USB cable.

Note: In Windows 7 and Windows Vista, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend you continue with the steps to install the KX Driver for an expanded feature set.

2 On the **Installation Method** page, select **Custom Mode**.

3 The **Discover Printing System** page opens, searching for your printing system. The **Discover** button is automatically selected.

Select your device and click **Next**.

If Discover does not find your printing system, a message appears. Remove and reinsert the USB cable, and ensure it is connected properly. Click **Refresh** to retry the discovery. If the system still cannot find your printing system, contact your system administrator.

4 On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

5 On the **Printer Settings** page, you can assign a name to your printing system.

Note: With a first time USB connection, the **Printer Settings** page does not appear.

You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

6 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

Note: If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

7 The **Installation Completed** page appears displaying the following driver options.

Print a test page

This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor

The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

Show Quick Print Tab

This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Installing in Custom Mode with a Network Connection using Custom Select

This section describes the custom installation procedure of the driver software in Windows operating systems using a network connection.

1 Ensure that your printer and computer are connected to a network.

2 On the **Installation Method** page, select **Custom Mode**.

3 The **Discover Printing System** page opens, searching for your printing system. The **Discover** button is automatically selected. Choose **Custom select** and click **Next**.

4 The **Printing System** page appears. Select your printing system model from the list and click **Next**. If there is only one driver model, this page does not appear. Proceed to the next step.

5 On the **Printer Port** page, select the port connected to your printing system, or add a port connected to your system by clicking **Add Port**. Click **Next**.

6 On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

7 On the **Printer Settings** page, you can assign a name for your printing system. You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

8 On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

Note: If the **Hardware Installation** warning dialog box appears, click **Continue**.

9 The **Installation Completed** page appears displaying the following driver options.

Print a test page

This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor

The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

Show Quick Print Tab

This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

Device Settings

Select the **Device Settings** check box to open **Device Settings** where you can choose installed options for your printing system. (The **Device Settings** check box appears only in Windows XP.)

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Installing in Custom Mode with a USB Connection using Custom Select

This section describes the custom installation procedure of the driver software in Windows operating systems using a USB connection. With the **Custom select** option, you manually select the printing system and printer port to install.

In **Custom mode**, **Custom Select** is not recommended for USB in environments where printing systems are connected and reconnected using USB ports. The **Discover** method provides a more reliable installation path.

1. Ensure that your printer and computer are turned on and connected using a USB cable.

   Note: In Windows 7 and Windows Vista, a driver installation will be made from the Microsoft Windows Update site if a certified driver is available and the system is connected to the web. We recommend the **Custom Mode** using Discover for USB connections to ensure a reliable installation.

2. On the **Installation Method** page, select **Custom Mode**.

3. The **Discover Printing System** page opens, searching for your printing system. The **Discover** button is automatically selected. Choose **Custom select** and click **Next**.

4. The **Printing System** page appears. Select your printing system model from the list and click **Next**.

5. On the **Printer Port** page, select an existing port connected to your printing system. Click **Next**.

6. On the **Custom Installation** page, select the driver and software packages you want to install from the **Driver** and **Utility** tabs, and clear those not intended for installation. Click **Next**.

   If you only select software packages from the **Utility** tab, you will skip to the **Confirm Settings** page.

7. On the **Printer Settings** page, you can assign a name to your printing system.

   You can also choose to share this printer with others or set this printer as the default printer. Make your selections, and then click **Next**.

8. On the **Confirm Settings** page, click **Install** if the settings are correct. Click **Back** to correct the settings.

   Note: If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

9. The **Installation Completed** page appears displaying the following driver options.

   Print a test page

This selection verifies a connection with the printer and creates a print out of the installed driver components.

Enable Status Monitor

The **Status Monitor** displays system status messages on your computer screen during printing tasks. The **Status Monitor** button appears on the **Advanced** tab.

Show Quick Print Tab

This selection lets you define basic print options into group profiles that can be accessed easily. The **Show Quick Print tab** option also appears in the **Administrator Settings** in **Device Settings**.

When the installation completes successfully, click **Finish** to exit the installation wizard.

A message may appear if there is a software installation failure.

Click **Finish**, and retry the installation. If the same message appears again, contact your system administrator.

The installation of the printer is now complete. If prompted, restart your computer.

Optional Printer Components

You can expand the functionality of your printer driver by installing optional components.

Installing Optional Printer Components

1. On the **Product Library** disc menu > **Advanced Tools** menu, select **Optional Printer Components**.
2. Select a printer to install optional components, and click **Next**.
3. On all **Select** pages, choose your components, and click **Next**.
4. On the **Confirm Settings** page, click **Install** if the displayed settings are correct. Click **Back** to correct any settings.
5. The **Printer Components Installation Completed** page appears. Click **Finish**.

   When you have completed installing printers and optional components, restart your computer if prompted.

The Add Printer Wizard

The **Add Printer Wizard** displays a series of pages that guide you through printer installation. You are prompted to make installation choices on each page.

Installing a Printer Driver in Windows 7 and Windows Vista

This section describes how to install a printer driver using the **Add Printer Wizard** in Windows 7 and Windows Vista.

1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista).

2 Click **Add a printer**.

3 The **Add Printer Wizard** appears. Click either **Add a local printer** or **Add a network, wireless or Bluetooth printer**. Follow the instructions on each page, and then click **Next** to proceed to the next page.

Note: If the **Windows Security** warning dialog box appears, click **Install this driver software anyway**.

4 The last page of the wizard appears with a message that you've successfully added the printer you selected. Installation of the printer driver is now complete. Click **Print a test page** if you want to produce sample print output from the newly installed printer. To close the **Add Printer Wizard**, click **Finish**.

Installing a Printer Driver in Windows XP

This section describes how to install a printer driver using the **Add Printer Wizard** in Windows XP.

1 Click **Start** and **Printers and Faxes**.

2 Click **Add a printer**.

3 The **Add Printer Wizard** appears. Follow the instructions on each page, and then click **Next** to proceed to the next page.

Note: If the **Found New Hardware Wizard** page appears, click **Cancel**. If the **Hardware Installation** warning dialog box appears, click **Continue Anyway**.

4 When the **Completing the Add Printer Wizard** page appears, installation of the printer driver is now complete. To close the **Add Printer Wizard**, click **Finish**. If prompted, restart your computer.

Printer Driver Settings Access

The printer driver software can be accessed from the **Print** dialog box of an application, or from **Start**. If accessed from an application, then changes made to driver settings remain in effect until the application ends. If accessed from **Start**, changes are maintained as the default printer settings.

Changing the Default Driver Settings

Default driver settings apply to print jobs initiated from any application, but they are overwritten by setting changes made within each application.

1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).

2 Right-click on your printing system icon.

3 Click **Printing Preferences**.

4 In the **Printing Preferences** dialog box, select the desired features in all tabs.

5 Click **OK** to save the settings.

2 Device Settings

In **Device Settings**, you can select installed printing system options so the associated features can be used with the printer driver. You can also match the memory setting in the driver with the memory installed in your printing system, which lets the driver manage font downloads more efficiently. Administrator, User, PDL (Page Description Language), and Compatibility settings can also be selected.

Accessing Device Settings

Device Settings can be accessed from **Devices and Printers** (Windows 7), **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP) folder.

1. Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).
2. Right-click the desired printing system model.
3. Click **Printer properties** (Windows 7) or **Properties** (Windows Vista, Windows XP).
4. Click **Device Settings**.

Device Options

Optional devices extend the capabilities of your printing system for source and job storage.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Setting Device Options

You can set the printer driver to match the optional devices installed on your printing system.

1. In **Device Settings** > **Device options**, select the check boxes for all installed devices.
2. Click **OK** in the **Properties** dialog box.

Auto Configure

Auto Configure detects the devices installed on the printing system if it is connected over a network. **Auto Configure** can detect printing system devices such as input devices. When your computer is connected to the printing system

through a TCP/IP or WSD port, the **Auto Configure** button appears in **Device Settings**. **Auto Configure** updates the **Device options** list, **Memory**, **RAM disk**, and preview images to keep the printer driver consistent with the printing system configuration.

Not all installed devices are detected by using **Auto Configure**. Before selecting **OK** in **Device Settings**, check the settings to make sure that they are correct.

Note: The default setting for Windows XP Service Pack 2 is for the Windows Firewall to be set to **On**. The setting can be changed to allow communication between the printing system and your computer. In the Windows **Security Alert** dialog box, click **Unblock**.

Silent Auto Configuration

Silent auto configuration checks the printing system every 10 minutes for changes in optional devices or memory. When a change is detected, the driver is automatically updated with the new settings. **Silent auto configuration** is only available for printing systems installed in Windows 7 or Windows Vista.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Enabling Auto Configuration

The **Auto Configure** button can be used to detect all available device options when the printing system is connected to a network through a TCP/IP port.

1 Verify that all optional devices are attached to the printing system, and that it is turned on and ready to print.

2 In **Device Settings**, click **Auto Configure**.

In Windows XP, the driver settings are updated immediately.

In Windows 7 and Windows Vista, the **Auto Configure** dialog box opens. Select from Auto configure options:

Auto Configure Now

Click the button at any time to retrieve the current settings from the printing system. It is recommended to do this when the driver is first installed and when **Silent auto configuration** is turned off.

Silent auto configuration

Select to let the driver check the printing system every 10 minutes for any changes in optional devices or memory. When a change is detected, the driver is automatically updated with the new settings.

Memory

Memory is the amount of standard and optional memory installed in the printing system. To maximize the downloading of printing system fonts, the driver must be set to match the total printing system memory.

Setting the Memory

By default, the **Memory** setting matches the standard memory in the printing system. If optional memory is installed, set the memory in the printer driver to match the total amount of memory.

1 Install optional DIMM memory in the printing system.

2 In **Device Settings** > **Memory**, type or select the amount of total installed memory by clicking the up and down arrows until the text box shows the correct number of megabytes (MB).

If your printing system includes the **Auto Configure** feature, you can use it to obtain information about the memory size.

RAM Disk

The RAM disk functions as a virtual hard disk, saving print requests into the printing system's memory. Because the RAM disk is temporary memory, all data stored there is lost when the power is turned off.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Note: For some models, **RAM disk** requires optional printing system memory. Once installed, set the **RAM disk** in **Device Settings** > **Device options**.

If selected, the **Ignore application collation** feature in the **Compatibility Settings** dialog box lets the driver control collation. RAM disk can then increase the print speed of collated multiple copies by sending the print job just once.

Setting RAM Disk

You can set the RAM disk to save print requests into the printing system's memory.

1 At the printing system's operation panel, turn on RAM disk and set its size.

2 In **Device Settings** > **Device options**, select **RAM disk**.

3 In the **RAM disk** text box, type or select the desired RAM disk size. Click the up and down arrows until the text box shows the correct number of megabytes (MB) available physically on the operation panel.

The maximum RAM disk size depends on the amount of installed memory.

Administrator Settings

Administrator Settings lets you set options that include controlling accessibility, displaying features in the interface and setting a password to control access to the **Administrator Settings** options. Selections vary according to printing system model.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

General

An administrator can control the display of the **Quick Print** tab, and other miscellaneous settings, including password and SNMP settings.

Show Quick Print Tab

This option lets you control the display of the **Quick Print** tab. You can define basic print options into group profiles for improved accessibility.

With a clear check box for **Show Quick Print tab**, the tab does not appear in the **Printing Preferences** dialog box.

To enable this feature, in **Device Settings** > **Administrator Settings** > **General**, select **Show Quick Print tab**.

With a selected check box for the **Show Quick Print tab**, the tab appears in the **Printing Preferences** dialog box. When you select the **Show Quick Print tab** check box, you can access additional check boxes:

Hide other tabs displays only the **Quick Print** tab to the user.

Set Quick Print tab as default opens to this tab when you access **Printing Preferences**.

Hide Edit Quick Print control prevents users from customizing the **Quick Print** tab.

Send Count Information

This option lets you embed count information in the print job, which can be used by some applications for accounting purposes. Count information includes the number of copies produced as well as duplex printing, multiple pages per sheet, color mode, color page count, and paper size values.

When **PDF** is selected in the **PDL settings** dialog box, only color page count information is sent with PDF.

To enable this feature, in **Device Settings** > **Administrator Settings** > **General**, select **Send Count Information**.

Send Application Name

This option lets you send the application name with a print job, so that a different printing process is used for each application. For example, color printing is adjusted to print color accurately when color is specified as **Full color** rather than **RGB**.

This option is unavailable when **PDF** is selected in the **PDL Settings** dialog box.

To enable this feature, in **Device Settings** > **Administrator Settings** > **General**, select **Send Application name**.

Associate Profile with Application

This option lets you set all printing from each installed application to use the same driver settings as defined in a profile. Before using this feature:

A profile must be created in the **Profiles** dialog box, accessed from any **Printing Preferences** tab.

An association must be created between a profile and an application in the **Application Based Printing** dialog box, accessed from the **Profiles** dialog box.

To enable this feature, in **Device Settings** > **Administrator Settings** > **General**, select **Associate Profile with application**.

Password Protect Administrator Settings

You can set **Password protect administrator settings** in the **Administrator Settings** dialog box to prevent unauthorized changes in this dialog box. If

selected, this setting prompts you to enter a password and confirm the password. This password protection blocks access to all **Administrator Settings** options.

Setting the Administrator Password

You can set a password to prevent unauthorized changes in the **Administrator Settings** dialog box.

1 In **Device Settings** > **Administrator Settings** > **General**, select **Password protect administrator settings**.

2 In the **Password** dialog box, enter a password, using at least 4 and no more than 16 characters. Reenter the password in **Confirm password** and click **OK**.

Clearing the Administrator Password

You can remove the administrator password.

1 In **Device Settings**, select **Administrator**.

2 In the **Enter Password** dialog box, type the password and click **OK**.

3 In the **Administrator Settings** dialog box, clear the **Password protect administrator settings** check box and click **OK**.

SNMP

Simple Network Management Protocol (SNMP) is a set of rules that govern the management of network devices, such as printing systems. These settings determine the level of security when using the **Auto Configure** feature, and prevent unauthorized printing to the **SNMPv3** printing system. SNMP settings must be set in the printer driver and in the printing system's **Command Center**.

The following options are available:

SNMPv1/v2c

This option ensures successful **Auto Configure** communication using **Read community name** and **Write community name**.

SNMPv3

This option ensures secure **Auto Configure** communication using a user name and password. Authentication and privacy options are available by selecting **Settings**.

Apply to other models

This option displays a list of installed printing systems to apply the selected settings.

SNMPv3 Options

You can select options for secure communication with the printing system.

Authentication

This option provides an algorithm to check that a transferred file has arrived intact. Message Digest 5 (**MD5**) and Secure Hash Algorithm 1 (**SHA1**) are hash algorithms used to authenticate packet data.

MD5

This option provides a cryptographic hash function with a 128 bit hash value. It adds security and protection against Gateway Load Balancing Protocol (GLBP)-spoofing software.

SHA1

This option produces a message digest that is 160 bits long. **SHA1** is the successor to **MD5**.

Privacy

This option uses encryption for secure communication. It is available after you select the **Authentication** option. You may select one **Privacy** option.

DES

This option uses the Data Encryption Standard for encryption. **DES** turns cleartext into ciphertext via an encryption algorithm. It encrypts and decrypts data using 8-byte blocks and a 56-bit key.

AES

This option uses the Advanced Encryption Standard for encryption. **AES** is a symmetric block cipher that can process data blocks of 128 bits, using cipher keys with lengths of 128, 192, and 256 bits. It is more secure than **DES**.

Selecting SNMP Settings

These settings in the driver must be set to match the settings in the printing system's **Command Center**.

1. In **Device Settings** > **Administrator** > **General**, click **SNMP Settings**.
2. Select **SNMPv1/v2c** or **SNMPv3**.

   For **SNMPv1/v2c**, type the **Read community name** and **Write community name**, to a maximum of 32 characters, and click **OK**.

   For **SNMPv3**, type a **User name** to a maximum of 32 characters, and a **Password** from 8 to 32 characters.
3. To set authentication and privacy options for **SNMPv3**, click **Settings**.
4. In the dialog box, select from the available options.
5. Click **OK**.
6. Optional: Under **Apply to other models**, you can select all or any available models. The **SNMP** settings are applied to all selected models.

Lock Settings

An administrator can specify settings at the tab or feature level in the driver, and then lock them. The settings are then applied to all print jobs, and changes are restricted. The settings are locked in **Device Settings** > **Administrator Settings** > **Lock Settings**. For example, a driver setting could be set for printing duplex documents. This would save paper, resulting in cost savings and ecological benefits.

Locking a setting will also lock the feature where it appears in other tabs. For example, selecting **Lock Multiple pages per sheet** will also select and lock that feature in the **Quick Print** and **Layout** tabs.

The administrator can also set a password that is required to temporarily unlock a feature.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Lock Settings Options

The **Lock Settings** tab displays driver settings that an administrator can lock. Once locked, user changes are restricted and the settings are applied to all print jobs. Once the settings are made, the **Password settings** option can be accessed. This lets an administrator control usage of paper and toner amounts:

Black & White mode

This option disables all color settings in the driver's **Imaging** tab and prints all jobs with black toner only.

EcoPrint

This option locks the **EcoPrint** setting.

Duplex

This option locks the current **Print on both sides** setting selected in the **Quick Print** or **Basic** tab.

Multiple pages per sheet

This option locks the current **Multiple pages per sheet** setting selected in the **Quick Print** or **Layout** tab. The **Pages per sheet** option is not locked. Clicking the icon in the **Quick Print** tab, or the selection in the **Layout** tab, switches between the two-page and four-page options. In the **Layout** tab, all options are available and not limited to two-page and four page.

Profile with application

This option locks a defined profile of driver settings by application.

Job tab

This option locks settings selected in the **Job** tab.

Security settings

This option locks the **Security Watermark** in the **Advanced** tab. **Security Watermark** is an optional plug-in.

Password settings

The password set by the administrator temporarily unlocks driver features. It prompts the user for a password. When the administrator sets the password, the **Unlock** button appears in the driver tabs or the **Application Based Printing** dialog box. To unlock a feature, click **Unlock** and type the password.

User Login

User login provides job restriction by user, in contrast to the **Job accounting** feature, which assigns privileges by division or department. A maximum of 20 login user names and passwords can be registered at the printing system and 100 User IDs and passwords can be stored in the printer driver for use with multiple printing systems.

User login adds users with a **user name** and **password**. This feature limits printing privileges to specified users for secure printing and accounting. The number of pages printed by each user will be tracked by the printing system.

Users added in the printer driver must also be manually registered at the printing system’s operation panel.

User Login Options

User login settings selected in the driver are applied to every print job sent from your computer. The available options are as follows.

Use specific name

This option can be used to specify a user name and password to use the same **User login** for every print job. If this option is selected, the user does not have to type the name and password for each print job.

Prompt for name

This option prompts the user for a user name and password. You can use a name that is not on the list, and the name is not added to the list. When sending a print job, type a **Name** and **Password** when prompted, then click **OK** to print.

If you type a name that is not registered in the printing system, the job prints only if Unknown User ID Job is set to Permit at the printing system.

Prompt for name and validate

This option prompts for a **Name** and **Password**. For the job to print, the user name and password entered must be on the **Login user name** list. You can use the **Login user names** entered in the **Login user name** list of the driver. When sending a print job, type a **Name** and **Password** when prompted, then click **OK** to print. This option ensures that the job prints, only after verifying that the selected **Name** is saved in the driver.

Validate user name (computer) or prompt for login user name

This option searches for the Windows **User name** in the driver's **Login user name** list. Validation is done every time the user prints a job. If the Windows **User name** exists in the **Login user name** list, the associated driver **Login user name** and **Password** from the list are used for the print job. To release the print job, the user must enter the **Login user name** and **Password** at the printing system operation panel.

If a match is not found, the driver checks for administrator or user permissions. With user permissions, the print job is canceled, and the user is prompted to contact an administrator to establish printing permissions. With administrator permissions, the driver prompts for the **Login user name** and **Password**. Along with the Windows **User name**, these are then added to the list so succeeding print jobs do not require the user to enter a **Login user name** and **Password** again.

Login User Name

Click to add, delete, edit, import, or export login user names and passwords. Once a **Login user name** list is created, the list can be exported as a group by saving it as a text file (.CSV, .KXC., and .TXT). To import a **Login user name** list, browse for an existing list and save it in your printer driver.

Printing with User Login

After login user names are assigned and user login mode is set to **On** at the printing system, you can choose **User login** to print in user login mode.

1 In **Device Settings** > **Administrator Settings** > **User Login**, select **User Login**.

2 Select a **User Login** option:

Use specific name

Prompt for name

The remaining **User Login** options become available when you create a login user name list.

Note: If you select the **Use specific name** or **Prompt for name** option, proceed to step 5.

3 Under the **Login user name** list, click the buttons to view and manage the list.

4 Select from the remaining **User Login** options:

Prompt for name and validate

Validate user name (computer) or prompt for login user name

5 Click **OK** in all dialog boxes.

6 Print the document from the application.

7 When the **Print Options** dialog box appears, type or select a **Name** and **Password**, and click **OK**. Login is required for some options.

Job Accounting

Job accounting gives an administrator the ability to control usage of a printing system. With **Job accounting**, an administrator can assign account IDs (identification numbers) to users or departments, a specific account ID, or make account ID input mandatory for printing. After account IDs are created, you can view from the printing system operation panel the number of copies associated with a specific ID as well as limit the number of copies for individual IDs. Account IDs can be up to 8 digits.

Note: **Job accounting** must be set to **On** at the printing system. A maximum of 20 account IDs can be registered at the printing system and 100 account IDs can be stored in the printer driver for use with multiple printing systems.

Job Accounting Options

Job accounting supports the following options:

Use specific account ID

Select this option to track the print jobs of a user or group with an account ID. It sends the account ID with each print job. An administrator can restrict a user or group from changing their account ID by using the **Password protect administrator settings** in the **Administrator Settings** dialog box.

Prompt for account ID

Select this option to track the print jobs of a user or group with an account ID as well as prompt for an account ID. At the time a print job is sent, the user is prompted to enter a Job Accounting ID.

Prompt for account ID and validate

Select this option to prompt for an account ID that is saved in the driver. When sending a print job, type an account ID when prompted, then click **OK** to print. The account ID is validated against the account ID list. If typed incorrectly, you are prompted to type it again.

Display account ID list

Select this option to display the account ID list at the time of printing. The print job can be assigned to a user or group. The account ID list is stored in the driver and more than one ID must be established for the list to appear.

Account IDs

Add, edit, or delete account IDs from the list stored in the driver. Account ID descriptions match the user or group with an account ID. After an account ID list is created, the list can be exported as a group by saving it as a text file (.CSV, .KXC, .TXT). To import an account ID list, browse for an existing list and open it.

Printing with Job Accounting

After account IDs are assigned and Job accounting is set to **On** at the printing system, the number of pages printed is added to the selected account ID total.

1 In **Device Settings** > **Administrator Settings** > **Job Accounting**, select **Job accounting**.

2 Select a **Job Accounting** option:

Use specific account ID

Prompt for account ID

The remaining **Job accounting** options become available when you create an account ID list.

If you select the **Use specific account ID** or **Prompt for account ID** option, proceed to step 5.

3 Select **Account ID List** to create and manage account ID lists.

4 Select from the remaining **Job accounting** options:

Prompt for account ID and validate

Display account ID list

5 Click **OK** in all dialog boxes.

6 Print the document from the application.

7 For some options, when the **Print Options** dialog box appears, type or select an account ID, and click **OK**.

User Settings

User Settings lets you specify user and department names, select the default unit of measure, and change the driver display language.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Identification

Identification lets you identify your print job with a **User name** and **Department name**, up to 31 characters. The **User name** can be used to identify a print job stored on RAM disk memory.

Setting User Identification

You can type **User name** and **Department** information to be used with the **Job Storage (e-MPS)** feature.

1 In **Device Settings** > **User**, type your preferred name in the **User name** text box.

2 Type your department or group name in **Department** text box.

You can type up to 31 characters in the **User name** and **Department** text boxes.

3 Click **OK** in the **User Settings** and **Properties** dialog box.

Units

You can set **Inches** or **Millimeters** as the unit of measurement. This is used for the following settings:

Custom page size setting in the **Page Sizes** dialog box in the **Basic** tab.

Spacing setting in the **Watermark Add** and **Edit** dialog boxes in the **Advanced** tab.

Poster settings and **Gutter** settings in the **Layout** tab.

Selecting a Unit of Measurement

You can select a unit for displaying measurements in the user interface.

1 In **Device Settings** > **User Settings**, select **Inches** or **Millimeters**.

2 Click **OK** in the **User Settings** and **Properties** dialog boxes.

Language Preference

The **Language preference** option specifies the user interface language of **Device Settings** in **Properties** and all tabs of **Printing Preferences**.

Available languages vary depending on your locale and your computer settings.

Setting Language Preference

You can select a user interface language.

1 In **Device Settings** > **User Settings**, select the desired language from the **Select language** list.

2 Click **OK** in the **User Settings** and **Properties** dialog boxes.

PDL (Page Description Language)

A Page Description Language (PDL) specifies the contents and layout of a printed page. In **Device Settings**, you can choose from **PCL XL**, (Printer Command Language XL), **PCL 5c**, **KPDL** (an emulation of PostScript printing), or **PDF** (Portable Document Format). The printer default is **PCL XL**, which is suitable for most printing purposes. When using the XPS driver in Windows 7 and Windows Vista, **XPS** is the only PDL selection. After you select a **PDL**, the selection appears in the lower corner of the **Preview image**.

In **GDI compatible mode**, vector graphics are rasterized for printing as bitmap images. Use the **GDI compatible mode** option to improve the output quality of the graphic created by the application.

Note: To add **PDF** to the list of PDL choices, you must install the **Output to PDF** plug-in.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

PDL Options

The PDL options, available in the **PDL Settings** dialog box, are accessed in **Device Settings**.

PCL XL

The most recent version of HP PCL and PCL 6. This PDL includes PCL 5c features. PCL XL lacks backward compatibility with earlier PCL versions, though it is enhanced over PCL 5c in these areas:

- Reduced file size
- Better print speed
- Faster return to application

PCL 5c

- Fully compatible with earlier PCL versions
- Bidirectional communication support
- Wide selection of fonts for use with Microsoft Windows applications
- Complex graphics might not print as well

KPDL

KPDL is used when printing from applications that support PostScript 2 or 3.

- An emulation of PostScript printing
- Strong graphics reproduction
- Print speeds may be slower than PCL 5c
- Requires more printing system memory than PCL 5c
- Enables native TrueType font downloading
- Supports most Graphics settings options

PDF

Output to PDF is a plug-in feature that lets you print and save documents from multiple sources to Adobe PDF. This feature can be used as an alternative to existing commercial applications for creating PDF documents. Documents saved as PDF retain their original appearance, and can be viewed and printed with Adobe Reader on Windows, Mac OS, and UNIX platforms.

For a document using mixed paper sizes, all pages in the PDF use the size of the first page.

Note: With **PDF** selected in the **PDL Settings** dialog box, only a limited set of driver options are available.

PDL Settings

When you click the **Settings** button, the available options are:

PCL XL Settings or KPDL Settings

Enable smart duplex printing

This option automatically keeps a sheet of paper from being sent through the duplex unit if the sheet will only be printed on one side. The duplex unit will be bypassed for the following types of print jobs: a one page document, one page from a multi-page document, or a multi-page document that prints onto a single sheet. Selecting this option can reduce wear on the mechanical duplex unit, and result in comparatively faster printing times.

PCL XL Settings

Skip printing blank pages

This option prevents the printing system from outputting any page that contains no data, or that has, at most, one space character. Selecting this option can save paper, and result in comparatively faster printing times. This feature is for regular printing (not for booklet, duplex or multiple pages per sheet).

KPDL Settings

Allow data passthrough

This option reduces errors when printing complex jobs from applications that use PostScript formatting. When selected, **EMF spooling** is not available in the **Advanced** tab.

PDF Settings

Provides options for printing and saving documents to Adobe PDF format. See PDF topics for details.

Selecting a PDL

You can select a page description language from **PDL** options.

1. In **Device Settings** > **PDL** > **PDL Settings**, select the desired page description language from the **Select PDL** list.

2. You can select the **GDI compatible mode** option to improve the output quality of graphics created by your application.

3. Select **Settings** when the PDL is set to **PCL XL**, **KPDL** or **PDF**.

   If you select **PCL XL**, you can select **Skip printing blank pages** and **Enable smart duplex printing**.

   If you select **KPDL**, you can select **Allow data passthrough** and **Enable smart duplex printing**.

   If you select **PDF**, you can select from the available PDF Settings.

4. Click **OK** in the **PDL Settings** and **Properties** dialog boxes.

PDF Options

You can select **PDF** options if you have installed the **Output to PDF** plug-in.

The **PDF Settings** dialog box contains the following options:

PDF Settings

Embed fonts

This option ensures that document fonts appear accurately in the **PDF** file on screen. This option ensures accurate reproduction but significantly increases the file size.

Compress data

This option enables flat compression for the generated **PDF** document. This option significantly reduces the file size. Additional compression options are available within Adobe Acrobat.

Security

This option applies encryption to the **PDF** document. Click **Settings** for additional **Security** settings. See the next section for details.

Print and save

This option lets you print and save a document as a PDF file. Click **Settings** for additional **Print and save** settings.

Security Settings

This option lets you select an encryption level and create passwords for the generated **PDF** file.

The following security options are available:

Encryption

Encryption provides password protection so that a document cannot be opened or altered by unauthorized users.

40 bit

This encryption option provides low level security for a PDF document. It is supported for earlier versions of Adobe Acrobat and Adobe Reader 6.0, or later.

128 bit

This encryption option provides high level security for a PDF document. It is supported for Adobe Acrobat and Adobe Reader 6.0, or later.

Passwords

Select passwords for changing security settings and for opening a document. Passwords are supported up to 16 characters in length.

Require password to change security settings

Type an **Owner password**. Within Adobe Acrobat, this password is required to change the document restrictions in the **Files** > **Properties** > **Security** section. When a document with this password is opened in Adobe Reader, it cannot be printed or edited, and document data cannot be copied.

Require password to open document

Type a **User password**. The user password must be entered at the time the PDF document is opened. This password must be different from the owner password.

Print and Save Settings

This option lets you print and save a document as a PDF file.

Save to file only

A PDF file is created and saved locally.

Save to file and print

A PDF file is created, saved locally, and sent to print.

After you select between these two options, you can choose the following option:

Automatically save to default file

A PDF file can be saved automatically as a default file to be used again.

You can then select from the following options:

Replace default file

This option lets you replace the default file.

Use default file + date and time

This option lets you use the default file name and add a date and time stamp each time the document is saved.

Default file directory

This option lets you browse to a location to save your PDF.

Printing and Saving to PDF

You can print a document and save it to Adobe PDF, if you have installed the **Output to PDF** plug-in.

1. In **Device Settings** > **PDL Settings**, in the **Select PDL** list select **PDF**.
2. Click **Settings**.
3. In the **PDF Settings** dialog box, select **Print and save**.
4. Click **Settings**, and select from print and save options. See the **PDF Options** topic for details.
5. Click **OK** in all dialog boxes.
6. Open and print the document.
7. Name and save the **PDF** file.

XPS Driver

In Windows 7 and Windows Vista, the XML Paper Specification (**XPS**) Page description language provides the most efficient method for displaying, processing, and printing documents. As both a PDL and a document format, **XPS** requires compatible printer hardware and software written for the Windows Presentation Foundation (WPF) architecture. **PCL** and **KPDL** are not compatible with an **XPS** environment. Therefore, an **XPS** driver supports a single PDL setting. The **XPS** driver can be installed from the **Product Library** disc. In the **Installation Method** menu, click **Custom Mode**, and on the **Custom Installation** page, select **KX XPS DRIVER**.

To view a print to file **XPS** document, download and install the Microsoft XPS Viewer.

Compatibility Settings

Compatibility Settings lets you specify media source values, override the application's **Collate** setting, and combine the **Source** and **Media type** lists in the **Basic** tab.

In a client/server environment, this feature is unavailable to a client logged in as a restricted user.

Media Source Enumeration

Media source enumeration supports compatibility for media source values unique to the printer driver, such as those for cassettes or feeders. Your newly installed printer driver maintains identical media source support with the driver it replaces, whether for this driver or one from another manufacturer. If media source macros exist for the older driver, then the alignment of media source values maintains support without the need to change the macros.

Setting Media Sources

Use the **Driver Info** utility (\Utility\Driver Info\DrvInfo.exe) to compare the source values for all installed drivers.

If the values for a given media source differ between printer drivers, you can reassign an enumerated value to create a match between the drivers.

1 In **Device Settings** > **Compatibility Settings**, from the **Media source enumeration** list select the paper supply method. The current value is listed in the **Enumerated value** box.

2 Type an **Enumerated value** for the media source, and click **Apply**. To align settings with a different driver, this value should align with those in the other driver.

3 Click **OK** in the **Compatibility Settings** and **Properties** dialog boxes.

You can restore all the options in **Compatibility Settings** to the default by clicking **Reset**.

Ignore Application Collation

This option bypasses the **Collate** setting in software applications, and gives priority to the printer driver setting.

With the check box selected, the printer driver **Collate** setting is used.

With the check box cleared, the application **Collate** setting is used.

Selecting Printer Driver Collation

You can ignore the collation setting in the application and use the printer driver collation setting.

1 In **Device Settings** > **Compatibility Settings**, select **Ignore application collation**.

2 Click **OK** in the **Compatibility Settings** and **Properties** dialog boxes.

You can restore all the options in **Compatibility Settings** to the default by clicking **Reset**.

Combine Source and Media Type Lists

You can change the driver's **Basic** tab so that **Media type** and **Source** are combined into one list, labeled **Source**. In the combined list, Media types are listed first, followed by cassettes and **MP tray**.

Creating a Combined Source List

You can combine the **Source** and **Media type** lists in the **Basic** tab to make one **Source** list.

1. In **Device Settings** > **Compatibility Settings**, select **Combine source and media type lists**.
2. Click **OK** in the **Compatibility Settings** and **Properties** dialog boxes.

You can restore all the options in **Compatibility Settings** to the default by clicking **Reset**.

Removing a Plug-in

You can remove an installed plug-in from the driver. If removed, the plug-in features do not appear in the driver interface.

Note: To remove the **Output to PDF** module, **PDF** must not be selected in the **PDL Settings** dialog box.

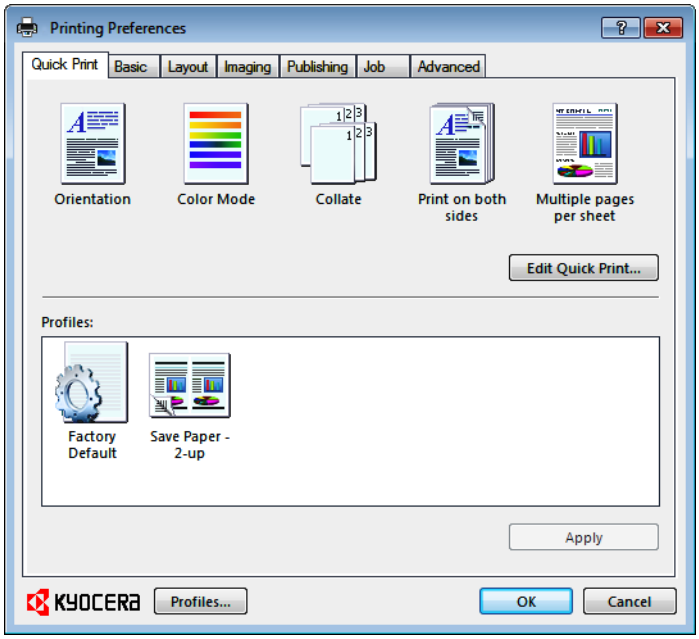
1. In **Device Settings**, click **Kyocera** logo > **Plug-in**.
2. Select a plug-in module from the list and click **Delete**, then **Yes**.
3. Click **OK** in all dialog boxes.

3 Quick Print

In the **Quick Print** tab, you can apply basic print settings to print jobs. Any **Quick Print** settings can be saved as a group, called a profile, and applied to any print job. Profiles support common printing tasks.

The administrator can set the view of the **Quick Print** tab through the **Installation** process, or **Administrator Settings** in **Properties**.

This chapter can be used as a separate **Quick Print** user guide when KX Driver support is controlled by an administrator.



Quick Print Options

You can set one or more print options on the **Quick Print** tab. You can create your own customized view of print options with **Edit Quick Print**. And you can also select from profiles that have been set with predefined options for frequently run print jobs.

Common Printing Options

The upper section of the **Quick Print** tab has several icons that represent the most common options for print jobs. Click on the **Quick Print** icons to change settings for the print job. Some of these options also appear on the **Basic**, **Layout**, and **Imaging** tabs.

Orientation

This icon changes between portrait, landscape, portrait rotated, landscape rotated printing formats.

Color Mode

This icon changes between color and black and white printing.

Collate

This icon changes the ordering of the printed pages. The page ordering sequence can either be 123, 123, or 111, 222 and so on.

Print on both sides

This icon changes between duplex printing for flipping on the long edge, duplex printing for flipping on the short edge, or for not using duplex printing.

Multiple pages per sheet

This icon changes between Off, 2, and 4 for the number of pages printed on one sheet. For more than 4 pages per sheet, define these settings in **Layout** > **Multiple pages per sheet**.

Edit Quick Print

This button lets you select the print option icons to display and in what order when you access the **Quick Print** tab. The **Edit Quick Print** button is not available when the driver is accessed from an application's **Print** dialog box.

Any basic print options can be **Reset** to the default values in the **Quick Print** tab. This button only appears when it is accessed from an application's **Print** dialog box.

The following sections describe some of the **Quick Print** tab options in more detail. **Color Mode** and **EcoPrint** can be found in the **Basic** and **Imaging** tabs. **Collate**, and **Duplex printing** can also be found in the **Basic** tab. **Multiple pages per sheet** in the **Layout** tab. The **Profiles** options are accessed from **Printing Preferences**.

Color Mode

Color mode lets you choose full-color printing (CMYK) or printing with black toner only. When the selection appears in color, all color settings in the driver are enabled. Color cannot be chosen if **Black & White mode** is selected in the **Device Settings** > **Administrator Settings** > **Lock Settings**.

Collate

Collate specifies the order in which the pages of a multiple copy job are printed. With **Collate** selected, the first time the print job is sent to the printing system the data is rendered as page images in the printing system's memory. The remaining job copies are printed from the stored data. This avoids the extra processing involved in sending every copy from the computer to the printing system.

With **Collate** selected, the driver prints the complete job set by set. With **Collate** cleared, it prints each page by set. For example, with **Collate** selected, three copies of a five-page document output as pages one through five in succession, three times.

The printer driver automatically overrides the application's **Collate** setting and uses the printer driver setting. You can use the application's **Collate** setting by clearing the **Ignore application collation** check box in the **Compatibility Settings** dialog box accessed from **Device Settings**.

Duplex Printing

Duplex printing is printing on both sides of each page. Select **Print on both sides** to start duplex printing. The printing system contains a duplex unit that turns the paper over to allow printing on the reverse side. **Print on both sides** must be selected to print on both sides of the cover and insert pages.

Flip on long edge

Turn the long edge of the page to view the content.

Flip on short edge

Turn the short edge of the page to view the content.

Multiple Pages per Sheet

Multiple pages per sheet prints several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper. The size and readability of the multiple pages decrease as the number of pages per sheet is increased. You can set the arrangement of the pages from the **Layout** tab as well as print borders around each of the pages.

When **Multiple pages per sheet** is selected, **Scaling** and **Poster** are unavailable.

Edit Quick Print

The assortment of icons at the top of the **Quick Print** tab can be customized to include features that you use most often. Any number of icons from 0 to 5 can be displayed. All icons can be removed from view if you want to use only the **Profiles** options in the **Quick Print** tab.

Note: An administrator can hide the **Edit Quick Print** button by selecting **Hide Edit Quick Print control** in **Device Settings** > **Administrator Settings**. The **Edit Quick Print** button is not available when the driver is accessed from an application's **Print** dialog box.

Editing Quick Print Options

You can select from a limited set of driver features to appear in the **Quick Print** tab.

1. Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).

2. Right-click on the desired printing system model and click **Printing Preferences**.

3. Select the **Quick Print** tab.

4. Click **Edit Quick Print**.

   To add a feature to the **Quick Print** tab, select the feature under **Available controls**, and click the right arrow to move the feature to **Selected controls**. A maximum of 5 features can appear under **Selected controls**.

   To remove a feature from the **Quick Print** tab, select the feature under **Selected controls**, and click the left arrow to move the feature to **Available controls**. To use only the **Profiles** in the **Quick Print** tab, move all features to **Available controls**.

   Click the up and down arrows to change the position of the features under **Selected controls**. The feature at the top appears on the left in the **Quick Print** tab.

   To restore the list to factory default options, click **Reset**.

5 After making your selections, click **OK**.

Profiles

In **Profiles**, you can save printer driver settings as a profile. You can select multiple options in any **Printing Preferences** tab, save them to a profile, and use all of them at once when you apply the profile. The profiles list always includes a **Factory Default** profile that returns the driver options to their default settings. The profiles can include **Common Profiles**, which are installed as optional components through the **Optional Printer Components**, and any custom profiles created. A maximum of 26 profiles can be established in one driver, including the **Factory Default** profile. Settings made in **Device Settings** cannot be saved to a profile.

Selecting a Profile

You can select and apply a profile from the **Quick Print** tab or from the **Profiles** dialog box.

Quick Print tab

1 From **Profiles**, select a profile.

2 Click **Apply**. The side panel displays the options for that profile using an icon and a summary.

3 Click **OK**.

Profiles dialog box

1 In any of the **Printing Preferences** tabs, click **Profiles**.

2 In the **Profiles** dialog box, select a profile.

3 Click **Apply**. The side panel displays the options for that profile.

4 Click **OK**.

Saving a Profile

The **Save** button lets you create your own profiles. You can select the printing options you want in the driver, then save the driver settings including your customizations as a profile. You can then use that profile to print the same type of print job again without having to reselect all the settings. In **Printing Preferences**, the **Profiles** button appears at the bottom of all the tabs.

1 Set the printing options you want for your print job by opening **Printing Preferences** and selecting all your driver settings.

2 Click **Profiles** > **Save**.

3 To identify the profile, type a **Name**, select an **Icon**, and type a **Description**.

4 Click **OK** to save the profile.

The newly added profile appears in the **Profiles** dialog box.

5 Click **Apply** to use the selected profile for the current print job, or click **OK** to close the dialog box.

Note: To reset the printer driver to default settings, select the **Factory Default** profile, and click **Apply**. This clears the settings of a selected profile.

You can remove a profile by selecting it in the **Select profile** list and clicking **Delete**.

Editing a Profile

The **Edit** button lets you make changes to an existing profile. The **Factory Default** profile cannot be edited.

1 Click **Profiles**.

2 In the **Select profile** section, select the profile to be edited, and click **Edit**.

3 Any of the three options can be edited: name, icon and description. Click **OK** to save the edited changes.

The newly edited profile appears in the **Profiles** dialog box.

4 Click **Apply** to activate the selected profile to the current print job, or click **OK** to close the dialog box.

Importing a Profile

The **Import** button lets you import a copy of a profile from other printer drivers into your printer driver.

1 Click **Profiles** > **Import**.

2 Browse for the existing profile (.KXP), select it, and click **Open**.

A message appears if any of the profile settings in the imported file are unavailable in the existing driver. Select **Yes**, to import the profile, or **No**, to cancel the import.

3 If you selected **Yes** in the previous step, the newly imported file appears in the **Profile** dialog box.

4 Click **Apply** to use the selected profile for the current print job, or click **OK** to close the dialog box.

Exporting a Profile

The **Export** button lets you export a copy of a profile from your printer driver for use in other printer drivers. The **Factory Default** profile cannot be exported.

1 Click **Profiles**.

2 In the **Select profile** section, select the profile to be exported, and click **Export**.

3 The **Export Profile** dialog box appears. Name and save the profile.

4 Click **OK** to close the **Profiles** dialog box.

Application Based Printing

An administrator can associate a profile with an application so that all printing from the application uses the same profile settings. This makes profiles easier to use and ensures consistent printing from an application. For example, a duplex profile can be applied to all spreadsheet printing to save paper.

Associations between profiles and applications can be created at any time in the **Profiles** dialog box. To use the associations in printing, the feature must be turned on in the **Administrator Settings** dialog box, accessed from **Device Settings**.

A maximum of 25 associations can be created in the **Application Based Printing** dialog box, accessed from the **Profiles** dialog box.

In a client/server environment, clients can view details about server associations but cannot change settings or select another profile.

Adding an Association

Once profiles have been created or imported, you can create an association between a profile and an application. Then the application always prints using the associated profile settings.

1 In any tab, click **Profiles** to open the **Profiles** dialog box.

2 Click **Application** to open the **Application Based Printing** dialog box.

3 Click **Add** to open the **Add Association** dialog box.

4 Enter a name for the association, to a maximum of 31 characters.

5 Under **File name**, enter a valid executable file name (.EXE) for an application that allows printing, or browse to find a file located on your computer.

6 Select a profile from the list.

7 Click **OK** in the **Add Association** and **Application Based Printing** dialog boxes to create the association.

You can remove an association by selecting it and clicking **Delete**.

Editing an Association

You can change the name, file, and profile for an association.

1 In any tab, click **Profiles** to open the **Profiles** dialog box.

2 Click **Application** to open the **Application Based Printing** dialog box.

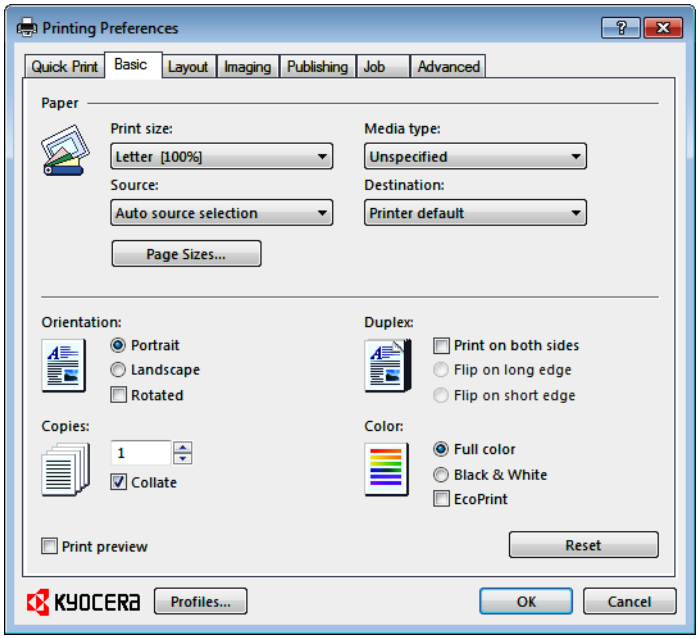
3 Select an association to edit and click **Edit** to open the **Edit Association** dialog box.

4 Change desired settings under **Association name**, **File name**, or **Profile**.

5 Click **OK** in the **Edit Association** and **Application Based Printing** dialog boxes to save the revised association.

4 Basic

In the **Basic** tab, you can specify the most commonly used printer driver settings.



Basic Settings

The **Basic** tab contains several settings for the most commonly used printing tasks.

Print size

This setting sets the size of the area that the printer prints to, regardless of the actual paper size that is used by the printing system.

Source

This setting specifies the cassette or tray that the printing system draws paper from. Unless you are using a custom paper type, you can leave it set to **Auto source selection**.

Page Sizes

This setting should match the page size setting in your application. The printing result is based on the page size specified in this setting. You can also create a custom page size.

Media type

This setting selects the **Source** based on the types of media that are specified in the printing system. In general, you can leave it set to **Unspecified**.

Destination

This setting specifies which output tray is used for the print job output.

Orientation

These settings specify the paper orientation of the print job. If **Rotated** is selected, the print job orientation is rotated 180 degrees.

Copies

This setting specifies the number of copies to print. For collating multiple copies, select **Collate**.

Duplex

These settings enable printing on both sides of a sheet of paper.

Color

This setting specifies between Full color or Black & White printing. You can also select the **EcoPrint** check box makes the entire image, text and graphics, appear lighter in the printed job. This setting does not increase print speed.

Print Preview

This setting lets you view your document before printing.

Note: Some applications may override print settings made in the driver. Usually the application can be set to follow the settings. In Microsoft Word 2007, ensure that **Default tray** in **Options** is set to **Use printer settings**.

Source and Media Types

In the **Basic** tab, **Source** specifies which tray or cassette the printer uses for a printing job. The default is **Auto source selection**, which instructs the printer to search for the media requested by the application or the printer driver. If the selected tray or cassette empties during a print job, then the printer searches for another source, and continues the job.

Media type instructs the printer to search for the type of paper or media that is requested by the application or the printer driver. The choices shown may change depending on the selection in **Source**. If **Auto media selection** is selected, then the printer searches for another tray or cassette using the same media.

Transparencies, labels, and envelopes must be supplied from the **MP tray**. Ensure the paper is properly loaded by following the instructions outlined in the printing system's *Operation Guide*.

Note: **Source** and **Media type** are separate items in the dialog box, but can be combined using the **Combine source and media type lists** setting in **Compatibility Settings**. If they are combined, **Media type** is not available on the **Basic** tab. To change this setting, open **Device Settings** > **Compatibility Settings** and clear the **Combine source and media type lists** selection.

Print Size and Page Size

Print size controls the output page size of the document. To use this setting, ensure that the **Page Sizes** setting matches the page size setting in your application. If the **Print size** is different from the page size in your application, then each page is enlarged or reduced to match the **Print size**. The percentage value shown in brackets indicates the size of the **Print size** setting relative to the **Page Sizes** setting. If the **Page Sizes** does not match the page size setting in the application (the size of the original) then, in most cases the **Print size** is ignored and the document is printed based on its original size.

You can create a page size with your chosen dimensions for printing on non-standard size paper. For example, you can create a custom banner with a height from 5.82 inches (148.0 mm) up to 14.01 inches (356.0 mm) and a width from 2.75 inches (70.0 mm) up to 8.5 inches (216.0 mm). You can then save the custom setting to the **Page Sizes** and **Print size** lists for later selection.

Creating a Custom Page Size

To use custom page sizes, they must be created and added to the **Print size** list. The driver supports a maximum of twenty custom sizes.

1. In the **Basic** tab, click **Page Sizes**.
2. Click **New**.
3. A default custom name appears in the **Name** box. Type a name for your custom page size.
4. Type or select values for the height and width. If the height or width value exceeds the allowable limit, it automatically adjusts to the limit after **Apply** or **OK** is clicked.
5. When done, click **Apply**.

The custom page size appears in the **Print size** list, which is used for enlarging and reducing the sizes of prints.

To delete a custom page size from the **Page Sizes** dialog box, select the name of the custom page size and click **Delete**.

Printing with Custom Size Pages

You can print on custom-sized pages.

1. Load custom-sized paper into the MP tray.
2. In the **Basic** tab, select the name of your custom page size in the **Print size** list.
3. Click **OK** to return to the **Print** dialog box.
4. Click **OK** to start printing.

Duplex Printing

Duplex printing is printing on both sides of each page. Select **Print on both sides** to start duplex printing. If it is not selected, then the printer prints on only one side of each page. The printer system contains a duplex unit that turns the paper over to allow printing on the reverse side. **Print on both sides** must be selected to print on both sides of the cover and insert pages.

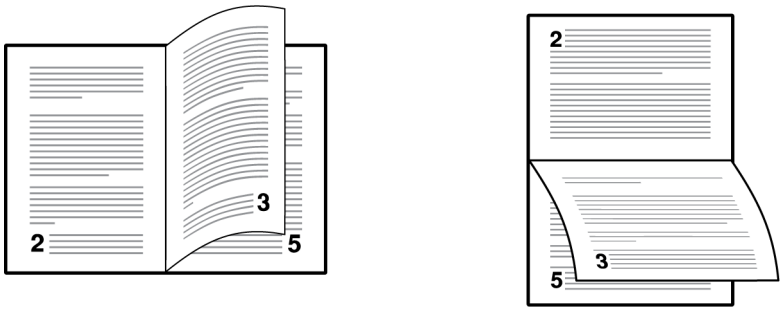
Flip on long edge

Turn the long edge of the page to view the content.

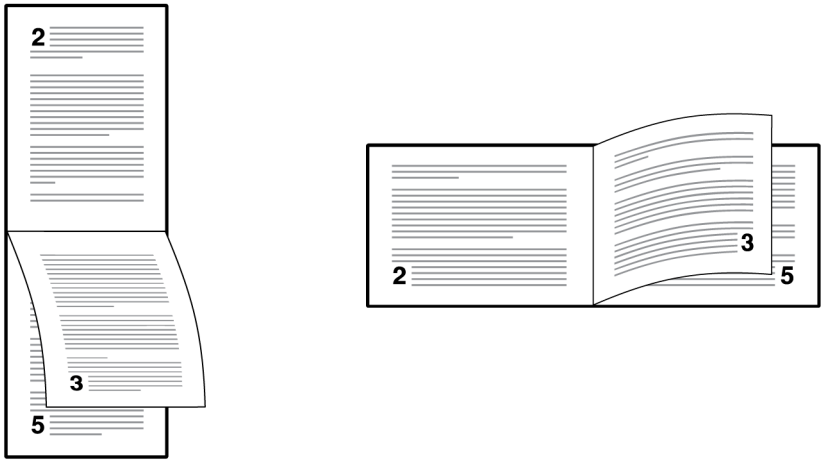
Flip on short edge

Turn the short edge of the page to view the content.

Flip on long edge



Flip on short edge



Printing in Duplex Mode

You can print on both sides of each page.

1. In the **Basic** tab, select **Print on both sides**.
2. Select either **Flip on long edge** or **Flip on short edge**.
3. Click **OK** to return to the **Print** dialog box.
4. Click **OK** to start printing.

Collate

Collate specifies the order in which the pages of a multiple copy job are printed. With **Collate** selected, the first time the print job is sent to the printing system the data is rendered as page images in the printing system's memory. The remaining job copies are printed from the stored data. This avoids the extra processing involved in sending every copy from the computer to the printing system.

With **Collate** selected, the driver prints the complete job set by set. With **Collate** cleared, it prints each page by set. For example, with **Collate** selected, three copies of a five-page document output as pages one through five in succession, three times.

The printer driver automatically overrides the application's **Collate** setting and uses the printer driver setting. You can use the application's **Collate** setting by clearing the **Ignore application collation** check box in the **Compatibility Settings** dialog box accessed from **Device Settings**.

Printing Collated Documents

When printing multiple copies of a multiple page document, the printer can assemble the pages of each copy in numerical order.

1. In the **Basic** tab, select the **Collate** check box.
2. Type or select the number of complete sets of the print job in the **Copies** box. The document page count must not exceed the printer tray capacity.
3. Click **OK** to return to the **Print** dialog box.
4. Click **OK** to start printing.

Printing in Color, Black & White, and EcoPrint

The options in **Color** let you choose full-color printing or printing with black toner only.

Full color

This mode prints four-color text and graphics.

Black & White

This mode prints with black toner only, making all color settings unavailable.

EcoPrint makes the entire image, text and graphics, appear lighter in the printed job. **EcoPrint** does not increase print speed.

Full color, **Black & White** and **EcoPrint** also appear in the **Quick Print** tab and in the **Imaging** tab. Changes in **Quick Print**, **Basic**, or **Imaging** tabs are replicated to another tab if the same feature appears there.

Print Preview

After selecting driver settings, you can use **Print preview** to check the print job before you proceed with printing. If you are satisfied with the preview, you can print. Or you can cancel printing if you want to change driver settings.

Previewing a Print Job

You can see a print preview before printing.

1. Select desired driver settings in all tabs, or select a profile.
2. In the **Basic** tab, select **Print preview**.
3. Click **OK** in the **Printing Preferences** and **Print** dialog boxes.
4. When the **Print preview** dialog box appears:

   Click the arrow buttons to view document pages.

To close the preview and make additional changes in driver settings before printing, click the “X” button.

If you are satisfied with the preview, click the printer button to print the job.

Kyocera Logo

The **Kyocera** logo appears on the bottom portion of any **Printing Preferences** screen or **Device Settings** screen. Click the logo to open the **About** dialog box that displays the driver version number and driver plug-in information.

Displaying Version Information

In **Device Settings** or any tab, click **Kyocera** logo > **Version** to view the following driver information:

File Name

Version

Description

Date

Manufacturer

Comments

To view copyright information, click **Legal Notices**.

Click **OK** to close the driver information dialog boxes.

Displaying Plug-in Information

A plug-in integrates with the printer driver to extend the driver’s capabilities.

In **Device Settings** or any tab, click **Kyocera** logo > **Plug-in** to view the following plug-in information:

Module

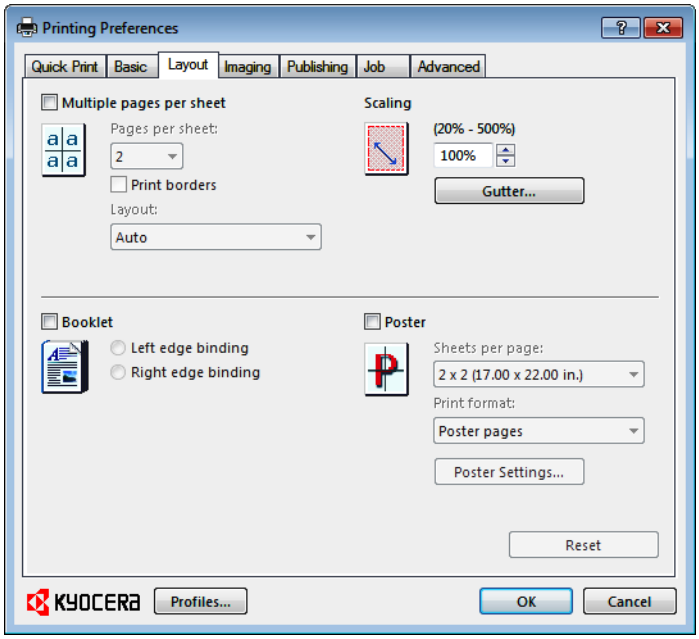
Description

Version

Click **OK** to close the driver information dialog boxes.

5 Layout

In the **Layout** tab, you can arrange document data on printed pages without affecting the original document.



Multiple Pages per Sheet

Multiple pages per sheet prints several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper. The size and readability of the multiple pages decrease as the number of pages per sheet is increased. You can set the arrangement of the pages from the **Layout** tab as well as print borders around each of the pages.

When **Multiple pages per sheet** is selected, **Scaling** and **Poster** are unavailable.

Printing Multiple Pages per Sheet

You can print several pages on a single sheet of paper.

1. In the **Layout** tab, select **Multiple pages per sheet**.
2. In **Pages per sheet**, select the number of pages to print on each sheet of paper.
3. If you want to print a border around each page, select **Print borders**.
4. In the **Layout** list, select the direction the pages should flow.

5 Click **OK** to return to the **Print** dialog box.

6 Click **OK** to start printing.

Scaling

Scaling increases or decreases text and graphics on a page. You can also select a gutter setting that enlarges the margins to accommodate stapling or hole punch.

When **Scaling** is selected, other **Layout** tab options are unavailable.

Setting Scaling on the Page

You can increase or decrease text and graphics on a page.

1 In the **Layout** tab, select **Scaling**.

2 Type or select a percentage between 20 to 500.

Scaling adjusts proportionately the height and width of the page. A lower percentage reduces the page and a higher percentage enlarges the page.

3 Click **OK** to return to the **Print** dialog box.

4 Click **OK** to start printing.

Gutter

A gutter creates additional blank space on the left side and at the top of the sheet. It is often used for binding, hole punch or stapling to make a print job easier to read. Increasing the measurements in **Gutter** increases the margins around your text and graphics on the left side, or top of the printed sheet. This creates a larger margin space by shifting the printable area to the right, or down as much as one inch (25.4 mm).

Creating a Gutter

You can increase the margins on the left side and at the top of the printed sheet.

1 In the **Layout** tab, click **Gutter**.

2 In the **Gutter width** options, type or select a value between 0.20 to 1.00 inches (5.0 to 25.4 mm).

Short edge (top)

This selection modifies the outside margin on the top-edge of the page.

Long edge (left)

This selection modifies the outside margin on the left-side of the page.

Note: Availability of **Gutter** settings varies depending on **Orientation** and **Duplex mode** settings in the **Basic** tab.

3 If text extends too close to the edge of the page, select **Reduce image to fit**. The text appears slightly reduced and away from the edge of the page. If text does not extend beyond the page when the gutter increases, clear **Reduce image to fit**.

4 Click **OK** to save gutter settings, then click **OK** again to return to the **Print** dialog box.

5 Click **OK** to start printing.

Booklet

Booklet prints a two-page layout on both sides of each sheet of paper. You can fold and bind the booklet in the center. Folded booklets are half the size of the selected paper. For example, if you select **Letter** in **Basic** > **Paper** > **Print size**, the printed output can be folded into a 5.5 x 8.5 inch-size booklet.

When **Booklet** is selected, other **Layout** tab options are unavailable.

A different paper source can be selected for the booklet cover. To include a cover on the booklet, select the **Publishing** tab, then select **Cover mode**.

Printing a Booklet

You can print a booklet.

1 In the **Layout** tab, select **Booklet**, and one of the two binding options.

Left edge binding

This selection prints text that reads from left to right.

Right edge binding

This selection prints text that reads from right to left.

2 Click **OK** to return to the **Print** dialog box.

3 Click **OK** to start printing.

Poster

The **Poster** feature lets you create a document to a size that is larger than the paper your printer can support. You can print a poster, or banner, up to 25 times larger than the original document. Segments of the poster document are printed on several sheets of paper and with the assistance of poster settings, you can reassemble the sheets easily to create a poster.

Use **Sheets per page** to select the poster size in relation to the original document size. Each option shows the number of sheets to be printed and the maximum poster size.

When **Poster** is selected, other **Layout** tab options are unavailable.

Note: **Sheets per page** displays the unit of measurement in inches or millimeters. You can change the **Units** setting in the **User Settings** dialog box, accessed from **Device Settings**.

Use **Poster Settings** to select options, in any combination to make it easier to create a poster. These options print visual cues on the poster sheets that provide help in cropping and assembling the pages.

Overlap edges

This selection duplicates the edges of document data on adjoining sheets. Poster appearance is improved when the edges overlap slightly. Select the check box, then type or select a value between 0.00 and 1.20 inches (0.0 and 30.4 mm). This option reduces the final poster size slightly.

Print crop marks

This selection prints a border at the edges of each poster sheet. You can crop each sheet on the border before assembling the sheets. This option ensures that data on adjoining sheets matches precisely.

Print assembly marks

This selection prints numbers at the edges of each sheet, matching numbers on adjoining sheets. Assemble each sheet edge to the same numbered edge on another sheet.

Use **Print format** to print a proof sheet, along with the poster, to guide you in assembling the printed poster sheets.

Poster pages

This selection prints all of the sheets to be assembled as a poster.

Proof sheet

This selection prints all the poster pages on one sheet with markings that display the sheet assembly.

Poster pages and proof sheet

This selection prints all poster sheets and a one-page proof sheet.

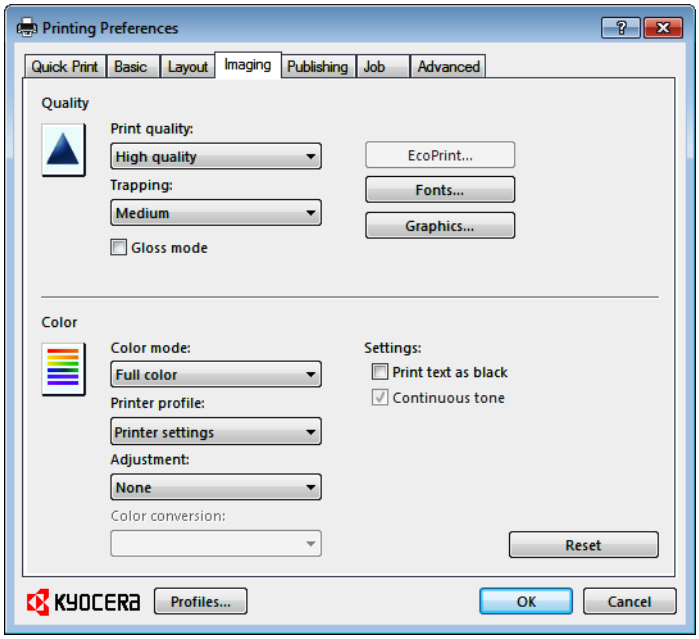
Printing a Poster

You can print a poster.

1. In the **Layout** tab, select **Poster**.
2. In **Sheets per page**, select the poster size. Each option describes the number of sheets it takes to represent one finished poster page.
3. Click **Poster Settings** to select options in any combination. These options ensure a precise assembly of the pages to create the poster.
4. In **Print format**, select one of the options for a finished print format.
5. Click **OK** to return to the **Print** dialog box.
6. Click **OK** to start printing.

6 Imaging

In the **Imaging** tab, you can manage print quality and color settings.



Print Quality and EcoPrint

Print quality lets you select between **High quality** or **Custom** (EcoPrint).

Selecting Print Quality

In the **Imaging** tab, select a **Print quality** from the list.

High quality

Select this setting to print at the highest print quality.

Custom

Custom lets you choose a setting for **EcoPrint**. Selecting **Custom** without **EcoPrint** results in a default setting to the highest print quality.

Selecting EcoPrint

EcoPrint changes toner saturation in the printed job, making the entire print image, including text and graphics, appear lighter. The amount of toner varies based upon your printing system model and the type of data printed (text, graphics, or both). **EcoPrint** does not increase print speed. **EcoPrint** is also available in the **Quick Print** and **Basic** tabs.

1 In the **Imaging** tab, in the **Print Quality** list, select **Custom**.

2 Click **EcoPrint** to open the **EcoPrint** dialog box.

3 To start **EcoPrint**, select **On**; to stop it, select **Off**.

4 Click **OK** to close the **EcoPrint** dialog box.

Trapping

In color printing, color inks or toners are applied separately to a page. A color image has its component colors applied in color separations of cyan, magenta, yellow and black. These color separations must be aligned (registered) precisely to produce a quality full–color image. During printing, the paper or media type may shift slightly. While the shift might be very small, the gaps between the colors in the image can be noticeable. Color trapping corrects it by overlapping colors slightly so that minor alignment issues are corrected.

To use trapping in a document, select a value for the print overlap pixel width: **Light**, 0.5 pixel trapping; **Medium**, 1 pixel trapping; **Heavy**, 1.5 pixels trapping; **Very Heavy**, 2 pixels trapping.

Note: Trapping is not available when **PCL 5c** or **PDF** is selected in the **PDL Settings** dialog box.

Gloss Mode

Gloss mode simulates high-gloss copies by adding a glossy appearance to printed text and images.

Note: When **Gloss mode** is selected, **EcoPrint** options are unavailable.

Fonts

A computer font is a data file containing a set of glyphs (visual representations of textual elements), characters, or symbols. Common terms for fonts are:

Outline fonts, in contrast to bitmap fonts, are defined as a set of mathematical lines and curves. An outline font is more easily scalable (designed to display and print clearly at any point size) than a bitmap font.

Bitmap fonts define each character as a pattern of pixels (the smallest resolvable rectangular areas of an image). Such fonts are not easily scalable and distort when reduced or enlarged.

Native fonts are the basic or original fonts installed with the computer operating system. TrueType fonts are the native fonts used by Microsoft Windows.

TrueType fonts are a type of scalable outline fonts. TrueType has long been the most common format for fonts on Microsoft Windows.

System fonts are the primary fonts used by the operating system. They are typically accessed through an application interface or through a common font dialog box.

Device fonts are stored either permanently or temporarily in the printing system memory.

Font Settings

The **Font Settings** dialog box lets you specify how TrueType fonts are sent to the printing system. The chosen method affects the speed and quality of the print job:

Download as outlines

This method is best suited for large documents or print jobs using multiple fonts and font sizes. Print speeds are faster because of the optimization features in this setting. The repetition of similar font data sent to the printing system is reduced, thereby increasing the print speed. Print speed is not increased when using Asian fonts such as Japanese, Chinese, and Korean, because of the large amount of font information used for these particular fonts.

Allow native download

This method improves text quality and increases print speed by converting TrueType fonts to Adobe Type 42 font format. This feature is available when **KPDL** is selected in the **PDL Settings** dialog box.

Download as bitmaps

Downloading fonts as bitmaps provides more detail, however it creates large file sizes. This is best suited for print jobs with custom fonts, very small fonts (point size 1-4), or Asian fonts.

Substitute with device fonts

System fonts and device fonts are automatically matched based on typeface name. This function increases print speed and efficiency. It is useful for changing a font used throughout a large document, by replacing the old font with the desired font.

Note: GDI compatible mode does not support **Substitute with device fonts**.

Selecting Font Settings

You can specify how TrueType fonts are sent to the printing system.

1 In **Imaging** > **Font Settings**, select one of the methods for sending TrueType fonts.

2 Click **OK** to return to the **Print** dialog box.

3 Click **OK** to start printing.

Font Substitution

Font substitution is the process of using one font in place of another when the intended font is not available to a printing system. Font substitution may be critical for output of documents to printing systems that are not well supported by a large font inventory.

Setting Font Substitution

You can use one font in place of another.

1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista), or **Printers and Faxes** (Windows XP).

2 Right-click on the desired printing system model and click **Printing Preferences**.

3 In **Imaging** > **Font Settings**, select **Substitute with device fonts**, then click **Fonts**.

In the **Fonts Substitution** dialog box, the **System fonts** list shows the fonts installed on your computer. The **Available device fonts** list shows the printing system fonts.

4 Select the system font, and then the available device font to be substituted.

5 Click **OK** to save your settings.

If the device font does not have similar font characteristics to the system font, character spacing in the document may appear incorrect.

Disable Device Fonts

In some cases, the printing system substitutes fonts even if you send the TrueType fonts as outline fonts or bitmap images. Select **Disable device fonts** to prevent substitution of device fonts for TrueType fonts.

This option also improves portability of printable data. (If cleared, device fonts may not match when sent to a different printing system.)

Some Adobe applications have device font limitations. To overcome these limitations, select **Disable device fonts**. Device fonts are normally visible in the application font lists as printer icons next to the font name, unless there are equivalent system fonts, in which case the “TT” TrueType icon remains.

Disabling Device Fonts

You can prevent substitution of device fonts for TrueType fonts.

1 In **Imaging** > **Font Settings**, select the **Disable device fonts** check box.

2 Click **OK** to save your settings.

Graphics

Graphics are pictorial representations of information. Graphics can be functional (charts, diagrams) or artistic (drawings, photographs). **Graphics Settings** let you select options for your printed graphics.

Note: Some options are available only when a specific PDL is selected.

Selecting Graphics Settings

1 In the **Imaging** tab, click **Graphics**.

2 In the **Graphics Settings** dialog box, select from the available options, and then click **OK** to save your selections.

Pattern Scaling

Pattern scaling is a feature that can help improve visual compatibility between screen and print output. Graphics objects, such as a shape or a path, often include patterns and fills that are composed of collections of printed dots. A pattern is a planned or random repetition of colors, shapes, lines, values, and textures to create a visual arrangement. A fill is the application of a color or grayscale to a graphics object. If printed patterns and fills do not match the appearance of that on the screen, use **Pattern scaling** to select a different density of printed dots.

In the **Imaging** tab, click **Graphics** to open the **Graphics settings** dialog box and access the **Pattern scaling** settings.

Auto (default setting)

This setting prints patterns and fills to match the on-screen appearance.

Coarse

This setting prints patterns and fills with the fewest number of lines, patterns, or dots. Coarse is the same as Auto when **PCL XL** or **PCL 5c** is selected in the **PDL Settings** dialog box.

Medium

This setting prints patterns and fills with a greater number of lines, patterns or dots than the Coarse setting. Medium is the same as Auto when **KPDL** is selected in the **PDL Settings** dialog box.

Fine

This setting prints patterns and fills with the greatest number of lines, patterns, or dots. Printed patterns and fills may appear more dense than the on-screen appearance.

Inversion Settings

Inversion is the opposite of the normal order, arrangement, or position of an image or printed content.

In the **Imaging** tab, click **Graphics** to open the **Graphics settings** dialog box and access the **Inversion options**. The settings are available when **KPDL** is selected in the **PDL Settings** dialog box.

Reverse image

This setting prints images like a photo negative, reversing black and white areas of the image.

Mirror print

This setting prints the page content backwards, as it would appear in a mirror image.

Optimization Settings

Optimization is a process or methodology of improving a printing system's function or effectiveness.

In the **Imaging** tab click **Graphics** to open the **Graphics settings** dialog box and access the **Optimization** settings. The settings are available when **KPDL** is selected in the **PDL Settings** dialog box.

Fast printing

This setting increases print speed and decreases spool size. It delivers images in binary format. It can be used for most everyday printing needs.

Document portability

This setting creates a PostScript file in ASCII text encoding. Unlike the binary format created in **Fast printing**, the ASCII text created with this selection can be edited.

CIE Optimization

CIE optimization bypasses the normal procedure of processing every aspect of the CIE color space used in applications such as Adobe Acrobat and Photoshop. This feature increases print speed for documents printed from these applications by optimizing CIE data. It has no effect on print jobs that do not use CIE data. **CIE optimization** should be selected for speed not accuracy, so printed output may be different from appearance on the screen.

In the **Imaging** tab, click **Graphics** to open the **Graphics settings** dialog box and access the **CIE optimization** check box. **CIE optimization** is available when **KPDL** is selected in the **PDL Settings** dialog box.

Image Compression Mode

Image compression mode lets you select a method for compressing images depending on the desired quality in printed images. JPEG compression produces a lower quality image, while delta row compression produces a higher quality image but creates a larger file size. **Image compression mode** is available when **KPDL** or **PCL XL** is selected in the **PDL Settings** dialog box.

In **Imaging** > **Graphics Settings**, select from the following compression options:

Smaller file size

Uses JPEG compression

High quality

Uses delta row compression

Color Mode

Color mode lets you choose full-color printing or printing with black toner only.

The following color modes are available:

Full color

This mode prints four-color text and graphics.

Black & White

This mode prints with black toner only, making all color settings unavailable.

Printer Profile

Printer profile lets you optimize the color rendering of photos and graphics. This feature is available when **Full color** is selected as the **Color mode**.

In **Imaging** > **Printer profile**, the following printer profiles are available.

Printer settings

This option uses the printer settings only.

Text and Graphics

This option is for printing documents that contain many graphs, charts or drawings.

Text and Photos

This option is for printing documents with many photographic images.

Vivid colors

This option increases the color saturation of graphics and photos.

Publications

This option is for printing a mix of graphics and/or photos. Select this option to print close to the color shade of the screen.

Line art

This option is for printing figures or graphics drawn with lines. Select this option to print colored lines with pure simple color.

Custom table

This option is for selecting a custom color table already installed on your printing system. All other **Printer profile** options use the default color table. For some models, this feature may not be available.

Advanced

This option achieves greater consistency in color reproduction among various devices. It compensates for the different color spaces of color printing systems. Selecting and applying a set of profiles is called a color profile. Select to open the **Color Correction** dialog box for additional color printing options.

Color Correction

In **Printer profile**, the **Advanced** option provides some methods for controlling how the printer processes color matching.

1 From **Printer profile**, select **Advanced**. The **Color Correction** dialog box appears with the following options:

None (application corrected)

With this option, color data processes without applying the adjustments contained in the printing system's internal color lookup tables. Ink simulation will not be executed. This is useful if the application provides its own color correction.

ICM (system corrected)

This option specifies color rendering in the print job to make it as close to the original as possible. ICM technology relies upon associating an output device like a printing system with a Color Profile. An ICM Profile for a printing system contains information about rendering accurate color information for that device. The settings for ICM must be set in the Color Management tab in the printing system Properties.

If you select the **None (application corrected)** option, click **OK** to close the **Color Correction** dialog box.

If you select the **ICM (system corrected)** option, proceed to step 2.

2 Select an option, then click **OK** to save the selection.

Optimize for exact color (Colormetric)

This option is for matching colors precisely in all print jobs, such as colors in a corporate logo.

Optimize for color contrast (best for images)

This option optimizes for color contrast by adjusting contrast to preserve detail throughout the tonal range. Select it for images or scanned photographs containing many colors or shades of color.

Optimize for color saturation (best for graphs)

This option optimizes for color saturation by adjusting hue to preserve the vividness of pure colors. Select for graphs or charts containing solid colors.

3 Click **OK** again to close the **Color Correction** dialog box.

Setting a Default Color Profile

When using the **ICM (system corrected)** feature in the **Color Correction** dialog box, you can set a color profile for your printing system.

Windows 7 and Windows Vista

1 Click **Start** and click **Devices and Printers** (Windows 7), or click **Control Panel** and double-click **Printers** (Windows Vista.)

2 Right-click on the desired color printer.

3 Click **Printer properties** (Windows 7), or click **Properties** (Windows Vista).

4 Select the **Color Management** tab and click **Color Management**.

5 In the **Devices** tab > **Device** list, select the desired color printer.

6 Select the **Use my settings for this device** check box.

7 In the **Profile selection** list, select **Manual**, and click **Add**.

8 In the **Associate Color Profile** dialog box, select an ICC profile, or click **Browse** to find a profile, and click **OK**. The profile is added to the **Profiles associated with this device** list.

9 Select the desired color profile and click **Set as Default Profile**.

10 Click **Close**.

Windows XP

1 Click **Start**, click **Printers and Faxes**.

2 Right-click the desired color printer.

3 Select **Properties**.

4 Select the **Color Management** tab and click **Add**.

5 In the **Add Profile Association** dialog box, select a color profile from the list and click **Add**.

6 In the **Color Management** tab, select **Manual**.

7 Select the desired color profile from the list and click **Set as Default**.

8 Click **Apply**.

Color Adjustment

Color Adjustment lets you customize the two color spaces in the driver and save up to three custom groups. Color space changes can be made to hue, saturation, and lightness (HSL) or to color balance levels.

Note: If different custom settings are selected in **Color Adjustment** and **Color Optimizer** (**Advanced** tab), the latest change takes precedence and is applied to the print job.

In a client-server environment, settings made by a client are saved in the client computer for future use.

Selecting Custom Color Adjustment

If a custom color setting has already been defined, you can select and apply it to a print job.

1 In **Imaging** > **Color mode**, select **Full color**.

2 In the **Adjustment** list, select **Custom 1**, **Custom 2**, or **Custom 3**.

3 Click **OK**.

Adjusting HSL (Hue, Saturation, Lightness)

HSL controls adjust the full spectrum, brightness, contrast, and vividness of the color.

1 In **Imaging** > **Color mode**, select **Full color**.

2 In the **Adjustment** list, select **Edit**.

3 In **Adjustment Settings** > **Custom color adjustment**, select **Custom 1**, **Custom 2**, or **Custom 3**.

4 Select **HSL (hue, saturation and lightness)**.

5 Under **Select Preview image**, click the icon to select one of three different images. Different colors are emphasized in each of the photographs to aid in the color adjustment process.

6 Adjust the distribution and balance of hues.

For coordinated hue adjustment, from the **Modify** list, select **Master**. Drag the **Hue** slider to increase or decrease the value between -180 and +180.

For specific hue adjustment, from the **Modify** list, select **Red**, **Yellow**, **Green**, **Cyan**, **Blue**, or **Magenta**. Drag the **Hue** slider to increase or decrease the value between -10 and +10.

7 Drag each slider to adjust the **Saturation**, **Lightness**, and **Contrast** between -10 and +10.

8 Click **OK** to save the new HSL settings.

Adjusting Color Balance

Color balance adjusts only the relative values of the colors red, green, and blue of RGB, or cyan, magenta, and yellow of **Full color**.

1 In **Imaging** > **Color mode**, select **Full color**.

2 In the **Adjustment** list, select **Edit**.

3 In **Adjustment Settings** > **Custom color adjustment**, select **Custom 1**, **Custom 2**, or **Custom 3**.

4 Select **Color balance**.

5 Under **Select Preview image**, click the icon to select one of three different images. Different colors are emphasized in each of the photographs to aid in the color adjustment process.

6 Under each color bar, drag the slider to adjust the relative values of each color between –10 and +10.

7 If you want to return all Color balance settings to zero, click **Reset**.

8 Click **OK** to save the new Color balance settings. The side panel displays these new settings.

Color Conversion

Color conversion lets you choose how to apply color processing to your print job depending on how color data is received from the application. This feature is available if **KPDL** is selected in the **PDL Settings** dialog box.

In **Imaging** > **Color conversion**, select from the following options:

Printer settings

Select this option to use the settings currently on the device.

Speed priority

Select this option if the driver receives RGB data from the application.

Quality priority

Select this option if the driver receives full-color data from the application.

Black & White Adjustment

Black & White adjustment settings change the brightness and contrast of graphics. These settings are useful if graphic images are printing too light, too gray, or too dark. Text remains unaffected.

Adjusting Black and White Settings

You can change the brightness and contrast of graphics.

1. In **Imaging** > **Color mode**, select **Black & White**.

2. In the **Adjustment** list, select **Custom**.

   A preview image in the **Adjustment Settings** dialog box illustrates any brightness and contrast changes.

3. Drag the **Brightness** slider right to lighten, or left to darken the graphic images of the print job.

   The brightest setting is +100; the darkest is -100. Zero is the default mid-level setting. Adjusting brightness allows for the customization of graphic images if images are printing too light or too dark.

4. Drag the **Contrast** slider right or left to increase or decrease the proportion of light to dark in the graphic images of the print job.

   A high contrast setting decreases the grayscale spectrum, making light grays lighter and dark grays darker. A low contrast setting increases the grayscale spectrum, making light grays darker and dark grays lighter.

   The highest contrast setting is +100; the lowest is -100. Zero is the default mid-level setting. Adjusting contrast is useful if graphic images are printing too gray, or too black and white. Text remains unaffected.

5. Click **OK** to save the new **Black & White** settings.

Text and Graphics Effects

Special settings are available for color or black and white printing.

Print text as black

This option prints all color text as black. It produces faster printing of color print jobs by reducing the amount of data sent to the printer. In black & white printing, it increases the detail for light-colored text printed. White text and image colors are unaffected. Available with all of the **Color mode** options.

Continuous tone

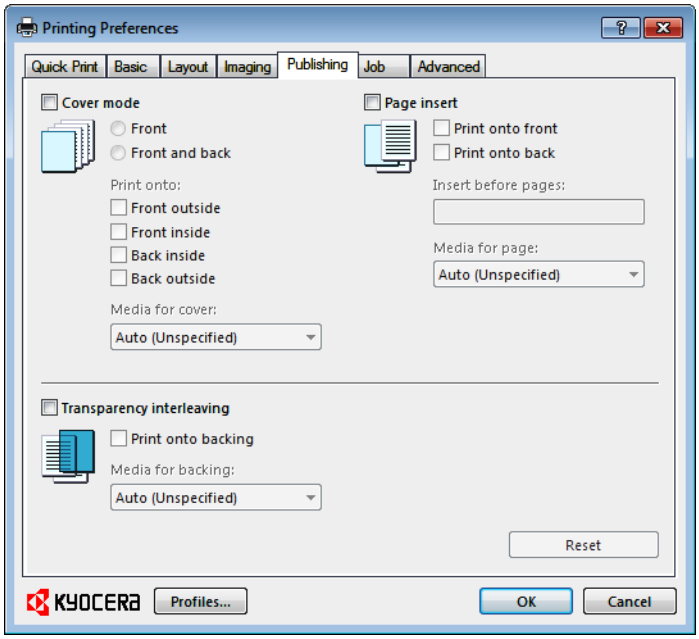
Images are represented by a series of evenly graduated tones, as in a photograph. **Full color** must be selected as the **Color mode**. **Continuous tone** is selected automatically.

Print graphics as black

This option prints all color graphics with black, rather than grayscale. This feature is implemented for CAD applications. **Black & White** must be selected as the **Color mode**.

7 Publishing

In the **Publishing** tab, you can create covers and inserts for a print job, and add backing sheets between transparencies.



Cover Mode

Cover mode lets you add cover pages for the front and back of your document. You can print on cover pages of a different weight or color than the main document. The source of the cover paper is specified by adjusting the **Media for cover** settings in the **Publishing** tab.

Print on both sides must be selected in the **Basic** tab or **Quick Print** tab in order to print using the **Front inside** or **Back outside** options.

Although **Cover mode** and **Page insert** can be used simultaneously, they cannot be used with **Transparency interleaving**.

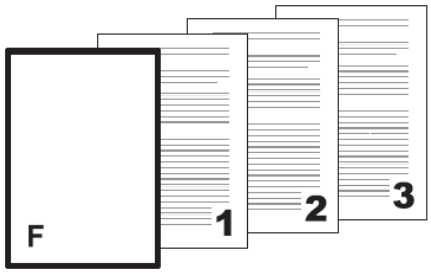
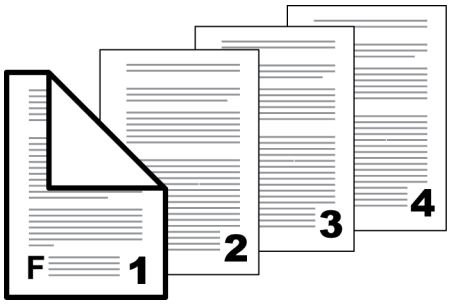
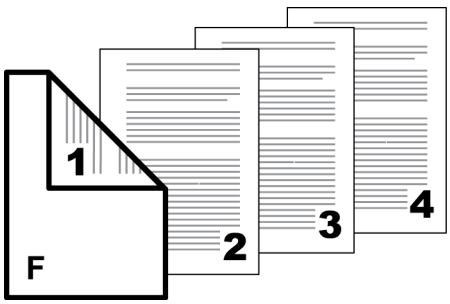
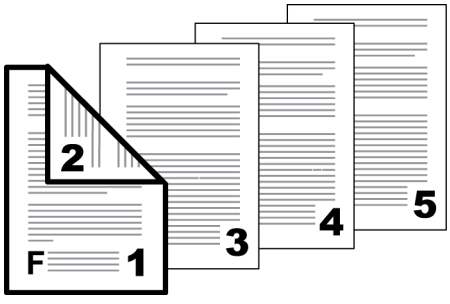
Printing Covers

You can choose cover pages for printing.

1. In the **Publishing** tab, select **Cover mode**.
2. Select **Front** or **Front and back** to specify the type of covers.
3. Select from **Print onto** options if you want to print on the covers.
4. Click **OK** to return to the **Print** dialog box.

5 Click **OK** to start printing.

Cover Mode Options

Check Box Selection	Cover Insertion Type
Front	Inserts a blank front cover. 
Front Front outside	Prints on the outside surface of the front cover. 
Front Front inside	Prints on the inside surface of the front cover. 
Front Front outside Front inside	Prints on the outside and inside surfaces of the front cover. 

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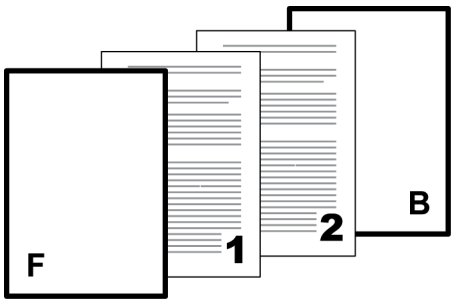
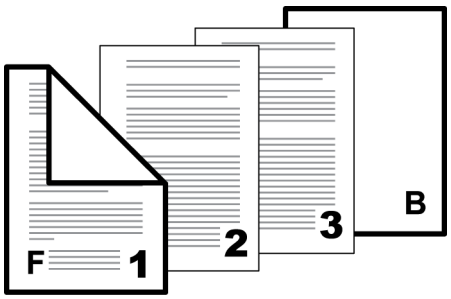
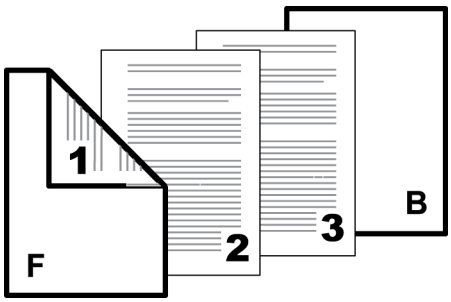
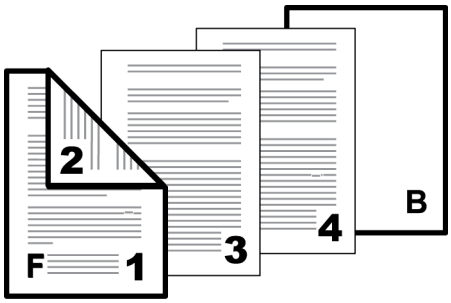
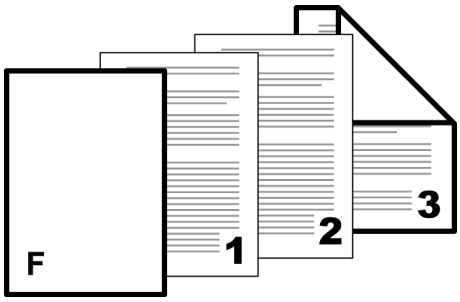
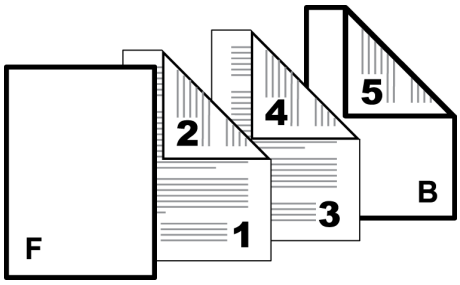
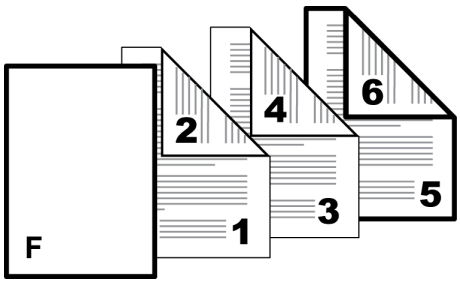
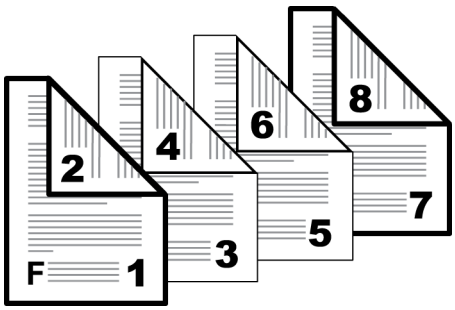
Check Box Selection	Cover Insertion Type
Front and back	Inserts blank front and back covers. 
Front and back Front outside	Prints on the outside surface of the front cover and inserts a blank back cover. 
Front and back Front inside	Prints on the inside surface of the front cover and inserts a blank back cover. 
Front and back Front outside Front inside	Prints on both sides of the front cover and inserts a blank back cover. 

— continued

Check Box Selection	Cover Insertion Type
Front and back Back inside	Prints on the inside surface of the back cover and inserts a blank front cover. 
Front and back Back outside	Prints on the outside surface of the back cover and inserts a blank front cover. 
Front and back Back inside Back outside	Prints on both sides of the back cover and inserts a blank front cover. 
Front and back Front outside Front inside Back inside Back outside	Prints on both sides of the front and back covers. 

Choosing Cover Media

You can select media for the cover.

1 In the **Publishing** tab, select **Cover mode**.

2 In the **Media for cover** list, select the media type or source cassette for the front and back covers. When you choose the media type, a source cassette matching that media type is automatically selected.

3 Click **OK** to return to the **Print** dialog box.

4 Click **OK** to start printing.

Page Insert

A **Page insert** is a preprinted page or a page of a different paper type that is inserted at specified points in a print job. The inserted page can also be printed on during the print job. Both sides of the page insert can be printed on by using the duplex unit.

Although **Cover mode** and **Page insert** can be used simultaneously, they cannot be used with **Transparency interleaving**.

Printing Page Inserts

Several ways are available to arrange page inserts: you can print on one or both sides or insert a blank sheet.

1 In **Publishing** > **Page insert**, select the option corresponding to your desired page arrangement.

2 To print on both the front and back of the inserted page, select the **Print onto front** and **Print onto back** check boxes.

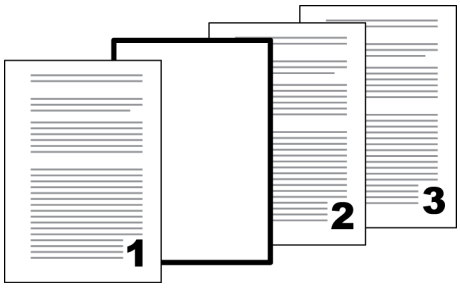
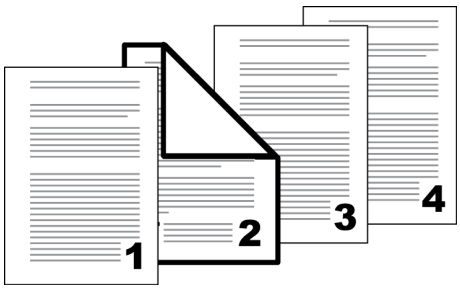
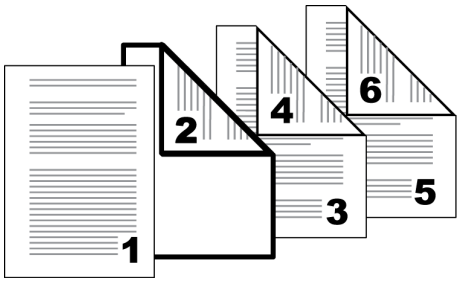
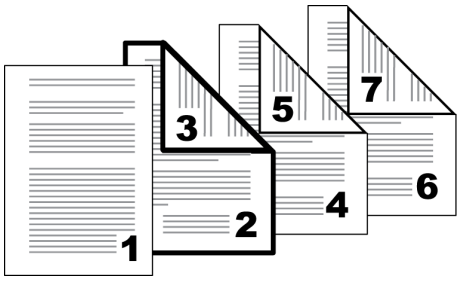
3 In **Insert before pages**, type the page number to insert. A page is inserted between the page number you typed and the page before it.

4 From the **Media for page** list, select the media type of the inserted page or the source paper cassette. When you choose the media type, a source cassette matching that media type is automatically selected.

5 Click **OK** to return to the **Print** dialog box.

6 Click **OK** to start printing.

Page Insertion Options

Check Box Selection	Page Insertion Type
Page insert	Inserts a blank page. 
Page insert Print onto front	Prints on the front side of the inserted page. 
Page insert Print onto back	Prints on the back side of the inserted page. 
Page insert Print onto front Print onto back	Prints on both sides of the inserted page. 

Transparency Interleaving

Transparency interleaving inserts a backing sheet between printed transparencies. The backing sheet, also known as an interleaf, helps keep transparencies clean and prevents them from clinging together. This feature is

only available when printing on transparencies supplied from the **MP tray**. You can print the same content on the backing pages as on the transparencies.

Transparency interleaving cannot be used together with **Cover mode** or **Page insert**.

Inserting Backing Sheets Between Transparencies

You can insert backing sheets between transparencies.

1. In **Basic** > **Media type**, select **Transparency**. If the **Source** and **Media type** lists have been combined (by a selection in **Device Settings** > **Compatibility Settings**), **Media type** does not appear. Instead, in the **Source** list select **Auto (Transparency)**.

2. Click **Publishing** > **Transparency interleaving**.

3. To print the transparency content on the inserted pages also, select the **Print onto backing** check box.

4. In the **Media for backing** list, select the **Media type** of the backing sheet or the **Source** paper cassette. When you choose the media type, a source cassette matching that media type is automatically selected.

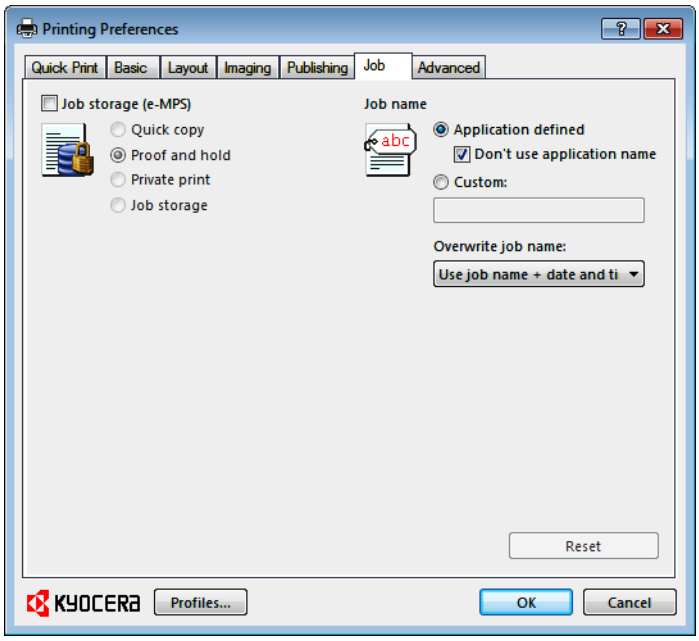
5. Click **OK** to return to the **Print** dialog box.

6. Click **OK** to start printing.

   The printing system's operation panel prompts you to load transparencies into the **MP tray**, and if necessary, load backing paper into the selected cassette.

8 Job

In the **Job** tab, you can store print jobs in the memory installed in the printing system. You can also select a **Job name** to use with Job storage features. You can use this tab to set or change the default settings that apply when you print a document from a Microsoft Windows application.



Job Storage (e-MPS)

Job storage (e-MPS) offers a set of options for saving print jobs in printing system memory, so that you can print or reprint them later. Print jobs can easily be reprinted later using the printing system's operation panel, and printing of sensitive documents can be restricted to approved users.

E-MPS is a multitier solution that provides advanced print management, directly from the desktop. By storing a job in the printing system, you can print it from the operation panel without sending it again from the computer.

To use the **Job storage (e-MPS)** features, you must set a user name in the **User Settings** dialog box, available in **Device Settings**.

Job Storage (e-MPS) options

	Storage location	Access code required	When job is printed	When job is deleted from memory
Proof and hold	**RAM disk**	No	One copy when job is sent; remaining copies later	When printing system is turned off

— continued

Private print	**RAM disk**	Yes	When access code is entered at operation panel	When printing system is turned off or after printing

Proof and Hold

Proof and hold is a **Job storage (e-MPS)** option that prints one copy of a print job so that you can proof it before printing the remaining copies. This feature is available when a RAM disk is set up in the driver and turned on at the printing system.

After the proof copy is printed and checked, remaining copies can be printed from the printing system's operation panel without sending the job again from the computer. If desired, you can change the number of copies printed.

Note: **Proof and hold** is not available for some applications such as Microsoft Excel.

All Proof and hold jobs are stored in RAM disk memory after printing but are deleted when the printing system is turned off. You can manually delete a job at the operation panel.

Warning: A print job can replace a job in RAM disk memory having the same **User name** and **Job name**. To prevent this, select **Use job name + date and time** under **Overwrite job name**.

Printing a Proof and Hold Job

Proof and hold lets you print one copy of a multicopy job to proof before printing the remaining copies. The job is stored in RAM disk memory until the printing system is turned off or the job is manually deleted.

1. Click the **Basic** tab, and select the number of copies to be printed.
2. Click the **Job** tab and select **Job storage (e-MPS)**.
3. Click **Proof and hold**, and click **OK** in both dialog boxes to print.

Private Print

Private print jobs are saved in RAM disk memory for printing until a four-digit **Access code** is entered. When the RAM disk reaches maximum capacity and a new job is sent to be stored, the oldest stored job is replaced by the new job. Private print jobs are deleted when the printing system is reset or turned off.

When sending a sensitive document to the printing system, a user must type a four-digit access code, which is attached to the print job along with the **Job name** and **User name**. The job is not printed until a user enters the access code at the printing system's operation panel. After the job is printed, it is removed from printing system memory.

The number of **Private print** jobs that can be stored is limited only by the storage capacity of the RAM disk. You can manually delete a job at the operation panel.

Warning: A print job can replace a job in RAM disk memory having the same **User name** and **Job name**. To prevent this, select **Use job name + date and time** under **Overwrite job name**.

Storing a Private Print Job

Private print lets you store a document temporarily in printing system memory without printing, and protect it with an **Access code**. The job is stored in RAM disk memory until it is printed, manually deleted, or turned off.

1. In the **Job** tab, select **Job storage (e-MPS)**.
2. Select **Private print.**
3. In the **Access code** box, type four numbers if you want to restrict access to your document.
4. Click **OK**.

Job Name

A **Job name** is a unique identifier for each print job. It helps you find and print your job from the printing system's operation panel. When you send a print job using one of the **Job storage (e-MPS)** options, you can assign a custom name to the job or use the name of the application file.

For Microsoft Word and PowerPoint, you can choose to include or omit the application name from the application defined **Job name**. You can also ensure that jobs in printing system memory are not replaced by new jobs having the same **Job name**.

Don't Use Application Name

Don't use application name is an option to remove the application name from the job name in job storage features. By selecting **Don't use application name**, the file name you choose appears clearly in the job list. This feature is applicable only when printing from Microsoft Word or PowerPoint.

Overwrite Job Name

Overwrite job name is an option to ensure that a saved print job is not replaced in printing system memory by a new job having the same job name. If a user sends two print jobs with the same user name and job name, the second job replaces the first job without any prompt. To prevent this, **Overwrite job name** can automatically change the job name by adding the date and time the job is sent. This feature also helps you to track when print jobs were sent from the computer.

The selected option applies to a job name with either **Application defined** or **Custom** selected. **Overwrite job name** options include:

Replace existing file

This option lets the current print job replace an existing job in printing system memory, if a job with the same user name and job name exists.

Use job name + date and time

This option adds the current date and time to the end of the job name, in the format: mmddyy hhmmss.

The previous print job with the same job name remains in the printing system memory.

Selecting a Job Name

You must select a job name to use with **Job storage (e-MPS)** features, so that you can find your job in job lists on the printing system's operation panel. The selected job name is saved with the print job when the job is sent to printing system memory.

1 In the **Job** tab, select **Job storage (e-MPS)**.

2 Under **Job name**, select a name:

Application defined

This option uses the name of the application document as the job name. For Microsoft Word or PowerPoint documents, selecting **Don't use application name** removes the name of the application so that only the document name appears as the job name.

Custom

This option uses a unique name for each job. Type a name in the box, up to 79 characters.

3 Select an **Overwrite job name** option in case a job already exists in printing system memory with the same job name:

Replace existing file

If a job with the same user name and job name exists, the current print job replaces an existing job in printing system memory.

Use job name + date and time

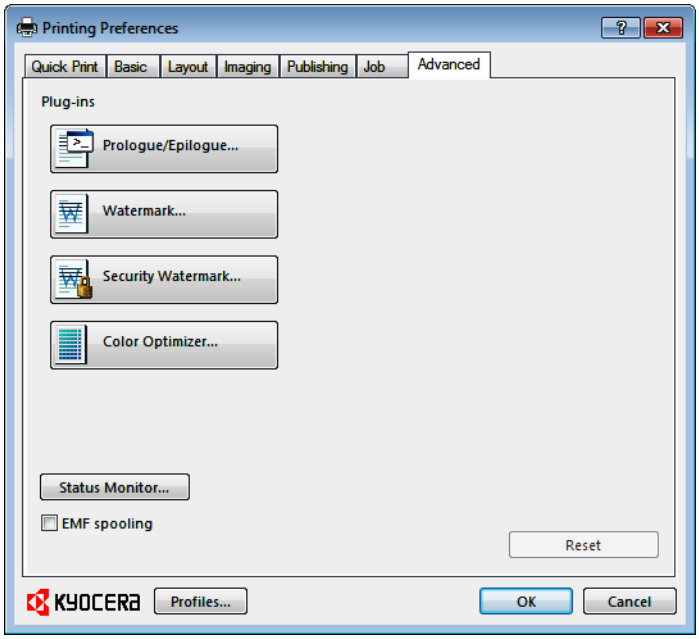
This option adds the current date and time to the end of the job name, in the format:

mmddyy hhmmss

The previous print job with the same job name remains in the printing system memory.

9 Advanced

In the **Advanced** tab, you can choose special features that extend the capabilities of the printing system.



Prologue/Epilogue

The **Prologue/Epilogue** feature lets you insert a command file at the beginning of a print job or at the end. The command file, prepared in a text editor, utilizes programming commands from the printer resident PRESCRIBE language. The **Product Library** disc includes a PRESCRIBE command language reference guide. A command file is a set of instructions the printing system interprets to produce a given output. For example, a **Prologue/Epilogue** command file may contain a macro that places a graphic object such as a logo at the top of a letterhead document.

Selecting a Prologue/Epilogue File

A **Prologue/Epilogue** file must be available on your computer before it can be added to a print job. To create this file, use a text editor like Windows Notepad.

In **Advanced** > **Prologue/Epilogue**, select a **Prologue/Epilogue** file name to insert into the print job. (If no file names are visible in the list, you must click **Add** to browse for files on your computer or network to add to the list.) After the file is selected, insertion point options become available.

Editing a Prologue/Epilogue File

You can edit a **Prologue/Epilogue** file on your computer.

1 In **Advanced** > **Prologue/Epilogue**, select a **Prologue/Epilogue** file name from the list, and then click **Edit**.

2 After your text editor opens, make your changes to the file.

3 Save the file and exit.

Note: Editing and saving a command file replaces the contents of the existing local or network file.

Deleting a Prologue/Epilogue File

You can remove a **Prologue/Epilogue** file from the list.

1 In **Advanced** > **Prologue/Epilogue**, select a **Prologue/Epilogue** file name from the list, and then click **Delete**.

2 In the delete confirmation box, click **Yes** to accept.

Note: Only the file name is removed from the command file list. The file itself is not deleted, but remains on the network or local computer.

Assigning a Prologue/Epilogue File

You can insert a **Prologue/Epilogue** file into a print job.

1 In **Advanced** > **Prologue/Epilogue**, select a **Prologue/Epilogue** file name from the list.

2 Under **Insertion Point**, select a place to insert the **Prologue/Epilogue** file.

Unassigning a Prologue/Epilogue File

If you designate a **Prologue/Epilogue** file as unassigned, you are removing it from the print job. It remains in the list. Unassigned selections are useful when the list contains several **Prologue/Epilogue** files, and you want to use some but not others.

1 In **Advanced** > **Prologue/Epilogue**, select a **Prologue/Epilogue** file name from the list.

2 Under **Insertion Point**, select **Unassigned**.

Specifying the Insertion Point

The insertion point is the location in the print job where the selected **Prologue/Epilogue** command file is processed by the printing system. Each file in the list can be assigned only one insertion point.

Note: The **Start of the page** and **End of the page** insertion point options are available only if **PCL 5c** is selected in the **PDL Settings** dialog box.

With a command file selected in the list, choose one insertion point option:

Unassigned

The selected command file is not inserted into the print job. This selection can be used when you are working with multiple command files and want to use some but not others. Select **Unassigned** for the command files you do not want to use in the print job.

Beginning of the print job

The command file is inserted as the first page of the print job. The document starts printing on the second page.

End of the print job

The command file is inserted as the last page of the print job, which prints after the last page of the document.

Start of the page

The command file is inserted at the top of each page of the print job.

End of the page

The command file is inserted at the bottom of each page of the print job.

Only on odd pages

If **Start of the page** or **End of the page** is selected, this option can be selected to insert the command file into all odd-numbered pages.

Only on even pages

If **Start of the page** or **End of the page** is selected, this option can be selected to insert the command file into all even-numbered pages.

Pages

If **Start of the page** or **End of the page** is selected, this option can be selected to insert the command file into specified pages. In the text box, type individual page numbers separated by commas, or a page range separated by a hyphen. For example, if you type 2 in the text box, the command file is inserted only into page 2. If you type 1, 3, 5-12 the command file is inserted into page 1, page 3, and pages 5 through 12. If the **Pages** option is selected and you click **OK** without typing any numbers, you will be prompted to specify page numbers.

Watermark

A watermark is a recognizable image or pattern that can be placed on a page or throughout a document. You can choose one of the standard watermarks or create your own text. The preview area at the left of the dialog box shows how the watermark appears on a page. This is useful for making adjustments to the appearance and location of the watermark.

Adding or Editing a Watermark

You can create a new watermark that displays your chosen text. Any watermark can be edited, though a limited number of options can be changed for default watermarks.

1 In the **Advanced** tab, click **Watermark**.

2 In the **Watermark** dialog box, click **Add** to create a user defined watermark; or under **Select watermark**, select a default or custom watermark and click **Edit**.

3 Under **Watermark name**, type a name, up to 39 characters. A default watermark cannot be renamed.

4 Under **Watermark text**, type your preferred text. This option is not available when editing a default watermark.

5 Select the font, style, size, and count of the text.

6 Select the color of the watermark from the list of default colors. For custom colors, select **Custom**, and click the button to open the **Color** dialog box. Click one of the **Basic** colors and click **OK**, or click **Define Custom Colors** to open the color spectrum panel.

When selecting **Color Mode** > **Black & White** in the **Imaging** tab, the list of default colors are levels of gray and black.

7 Select the **Position** of the watermark with one of the following options.

Centered [default]

This option places the center of the watermark text in the center of the page.

User defined

This option lets you manipulate the x and y coordinate boxes to move the text around the page.

You can also change the position by clicking the position button at the bottom of the preview area. Click and hold as you drag the pointer to move the watermark image.

8 Select the **Angle** of the watermark with one of the following options.

Diagonal [default]

This option places the watermark text at the default angle on the page.

User defined

This option lets you type a degree value for the angle. An angle is measured in degrees, from 0 to 360.

You can also change the angle by clicking the angle button at the bottom of the preview area. Click and hold as you drag the pointer to move the watermark image.

9 The **Rotate around center** check box at the bottom far right of the dialog box determines the method of rotation for the watermark. You must select **User defined** in both **Position** and **Angle** to enable this option. Select **Rotate around center** to position the watermark text with the center of the text as its axis, and clear it to position the watermark text with the left end of the text as its axis.

10 In all dialog boxes, click **OK**.

Selecting Pages for Watermark

The **Page selection** option for **Watermark** lets you choose the location for watermarks in your document.

1 In **Advanced** > **Watermark** > **Select watermark**, choose a default or custom watermark to print.

2 Under **Page selection**, choose pages for printing the watermark:

All pages

This option prints the watermark on each document page.

First page only

This option prints the watermark on the first document page.

All pages except first page

This option prints the watermark on all pages after the first page.

Only on specified pages

This option prints the watermark on page numbers typed in the box.

Print onto front outside cover

This option prints the watermark on the front cover. It is available when **Cover mode** is selected in the **Publishing** tab. If **Cover mode** and **Front outside** are both selected in the **Publishing** tab, **Print onto front outside cover** is selected automatically.

3 In all dialog boxes, click **OK**.

Security Watermark

The **Security Watermark** is a plug-in feature that prints a nearly invisible image or text against a background pattern. The security watermark appears only when the printed page is photocopied. This helps to identify printed pages that should not be photocopied, or to distinguish between original prints and photocopies. Six standard security watermarks are available as text or image, and you can create custom security watermark text.

A notable feature of **Security Watermark** is the **Document guard pattern**, which prevents the document from being photocopied, scanned, faxed, or printed from memory. If a scan, fax, or print from memory is attempted, the process is stopped and an error message appears on the printer's operation panel.

Following installation of the printer driver, use the **Optional Printer Components** wizard to install the **Security Watermark** plug-in.

Security Watermark appears in the **Advanced** tab if **PCL XL** is selected in the **PDL Settings** dialog box.

The administrator can ensure that a security watermark is printed on all jobs by selecting **Device Settings** > **Administrator** > **Lock Settings** > **Lock Security Settings**.

Selecting **Security Watermark** sets these driver features to the following values:

Watermark in the **Advanced** tab is set to **None**.

Printer profile in the **Imaging** tab is set to **Line art**.

EcoPrint in **Quick Print**, **Basic** > **Color**, or **Imaging** > **Quality** is set to **Off**.

Adjustment setting (color or black & white) in the **Imaging** tab is set to **None**.

Color Optimizer in the **Advanced** tab is set to **None**.

The reverse is also true. If these features are changed, then the **Security Watermark** selection is set to **None**, and cannot be used.

Adding or Editing a Security Watermark

You can create a new security watermark that displays text but not an image. Any security watermark can be edited, though a limited number of options can be changed for default security watermarks.

1 In the **Advanced** tab, click **Security Watermark**.

2 In the **Security Watermark** dialog box, click **Add**, to create a new security watermark; or under **Select security watermark**, select a default or custom security watermark and click **Edit**.

3 For **Security watermark name**, type a name up to 39 characters. A default security watermark cannot be renamed.

4 For **Security watermark text**, type text or leave blank. This option is not available when editing a default security watermark. Select from the following options:

None

This option leaves the line blank.

User defined

This option inserts your text up to 39 characters.

All other options display date, time, or other job information that is obtained from the computer or printer driver when the job is printed.

5 Select the font, size, style, and angle of the text.

6 Select **Print as footer also** if you want the first available line of security watermark text to be printed at the bottom of the page. Select the page position from the list. This option is useful because the security watermark itself is not normally visible on the printed page.

7 Under **Background pattern**, select a design for the security watermark background.

Standard pattern

Select a design for the security watermark background. This option prints the selected pattern with the security watermark text or image.

Document guard pattern

The document guard design appears as the security watermark background. This option prevents the printed page from being photocopied, scanned, faxed, or printed from memory. If a photocopy is attempted, then gray copy is produced. If a scan, fax or print from memory is attempted, the process is stopped and an error message appears on the printing system's operation panel.

8 Select a **Watermark color** for the security watermark from the list. The options are **Black**, **Cyan**, or **Magenta**.

When selecting **Color Mode** > **Black & White** in the **Imaging** tab, the only option for watermark colors is black.

9 For **Security Watermark**, **Overprint** is set by default. The security watermark is printed over the document data so that it can appear clearly in a photocopy.

10 Adjust the calibration. After adjusting calibration in all dialog boxes click **OK**.

Adjusting Security Watermark Calibration

For a security watermark to be effective, it must be nearly invisible in a printed page and clearly visible in a photocopied page. Because printing systems and driver settings can vary, you must adjust the calibration before printing a security watermark. Adjusting the calibration is also recommended when changing the background pattern, replacing the toner or printing system, and after heavy printing activity.

1 In **Advanced** > **Security Watermark**, click **Add** to create a custom security watermark; or under **Select security watermark**, select a default or custom security watermark and click **Edit**.

2 After all security watermark options are selected in the **Add Security Watermark** or **Edit Security Watermark** dialog box, click **Adjust Calibration**.

3 Under **Pattern shading** and **Text contrast**, select initial options:

Light, Normal, Dark

Select the shading density of the background pattern.

Contrast 1-9

Select the level of contrast against the background pattern, from lightest to darkest.

These selections may need to be changed after printing a sample in the next step.

4 Click **Print Sample** to print a page displaying all nine contrast options against the selected pattern shading. It is recommended to print a sample page for each pattern shading option.

5 From the **Text Contrast Sheet**, find the sample where the security watermark is most nearly invisible.

6 In the **Adjust Calibration** dialog box, select options to match the sample chosen in step 5.

7 In all dialog boxes, click **OK**.

Selecting Pages for Security Watermark

The **Page selection** options for security watermark determine where the security watermarks are placed in the print job.

1 In **Advanced** > **Security Watermark** > **Select security watermark**, choose a default or custom security watermark to print.

2 Under **Page selection**, choose pages for printing the security watermark:

All pages

This option prints the security watermark on each document page.

First page only

This option prints the security watermark on the first document page.

All pages except first page

This option prints the security watermark on all pages after the first page.

Only on specified pages

This option prints the security watermark on the page numbers typed in the text box.

Print onto front outside cover

This option prints the security watermark on the front cover. This option is available when **Cover mode** is selected in the **Publishing** tab. If **Cover mode** and **Front outside** are both selected in the **Publishing** tab, **Print onto front outside cover** is selected automatically.

3 In all dialog boxes, click **OK**.

Color Optimizer

Color Optimizer is a plug-in feature that lets you match a single color accurately in a print job. To install this optional component, see the *Installation* chapter. Use this feature to print a document that contains only one color besides black, such as a letterhead or company logo. The color should be solid and consistent, with no shading. **Color Optimizer** will not work in a document with multiple colors or photographs.

In the **Color Optimizer** dialog box, an eyedropper tool can be dragged into the on-screen document to select the color, or RGB values can be entered if you know them. A printed **Color Optimizer Table** lets you see 121 color variations on paper and select your variation. **Hue** and **Lightness** settings are adjusted in the driver according to the selected variation.

You can specify up to three custom settings that correspond to the custom settings in the **Imaging** > **Adjustment** feature. You can also select a **Printer profile** option.

When installed, the **Color Optimizer** button appears in the **Advanced** tab. The **Color Optimizer** button does not appear in the user interface when **PDF** is selected in the **PDL Settings** dialog box or **Black & White mode** is selected in the **Lock Settings** dialog box. **Color Optimizer** is unavailable for the following settings:

Black & White is selected in the **Imaging**, **Basic**, or **Quick Print** tab.

Lock Security Settings is selected in **Device Settings**.

In a client / server environment.

Optimizing RGB Color for Printing

You can use **Color Optimizer** to match a single color accurately in a print job. Options selected in the **Color Optimizer** dialog box are also saved in **Imaging** > **Adjustment**. At any time, you can click the Info icon in the **Color Optimizer** dialog box for instructions.

1 Open the document containing the desired color.

2 From the application's **File** menu, click **Print**, then click **Preferences** or **Properties** to open the **Properties** dialog box.

3 In **Advanced** > **Color Optimizer** > **Color adjustment**, select **Custom 1**, **Custom 2**, or **Custom 3**.

4 Under **Printer profile**, select from available options.

5 Select a color by one of the following methods:

Drag the eyedropper tool anywhere on the screen to select the desired color.

If you know the RGB values of the color, type or select the values.

The color appears in the color preview box.

6 Click the printer icon to print a one-page table displaying variations of the selected color. From the printed **Color Optimizer Table**, select the desired variation.

7 In the **Color Optimizer** dialog box, type the number of the selected variation (1–121) in the spin box next to the color preview box, or click the up or down arrow buttons to select the number.

8 If desired, type a description of the custom setting in the **Description** box, to a maximum of 30 characters. The description only appears in the **Color Optimizer** dialog box.

9 Click **OK** or **Apply** to save the settings.

Status Monitor

The **Status Monitor** displays printing system status messages in the lower right corner of the window during printing. You can start a status monitor for each supported printing system. More than one status monitor can be displayed at one time.

Selecting Status Monitor Options

You can select how to display the **Status Monitor** image and select from available options.

Note: The **Status Monitor** image closes on its own after 5 minutes, if there is no printing activity.

1 In the **Advanced** tab, click **Status Monitor**.

2 If you want the **Status Monitor** image to appear during a print job, in the **Status Monitor** dialog box, select the **Status Monitor** check box.

3 To view the print job status without changing the **Status Monitor** setting, click **Open Status Monitor**.

The **Status Monitor** image appears in the lower right corner of your computer screen.

4 Move the pointer over the **Status Monitor** image to display balloon-style status messages containing information about printing system activity and the printer port.

5 To display a list of options, right-click the **Status Monitor** icon in the system tray.

Hide the status monitor/Show the status monitor

Switches between hiding and showing the **Status Monitor** image.

Configure

Opens a web browser to display a printer web page.

Note: If your printer is connected with a USB cable, this feature cannot be used. Define settings using the operation panel of the printing system.

Always on top

Leaves the Status Monitor image on top of other open windows.

Opacity

Adjusts the Status Monitor to let a variable amount of background to show through the image. Select a percentage between 20 to 100.

Enlarge window

Select to increase the size of the Status Monitor image.

Sound Notification

Opens a dialog box with options for Status Monitor sound notification and display choices.

www.kyoceramita.com

Opens a web browser to the KYOCERA MITA home page.

Exit

Closes the Status Monitor image.

Setting Status Monitor Preferences

You can configure printing system alerts with accompanying sound or speech in the Status Monitor **Preference** dialog box.

1 Right-click the **Status Monitor** image in the system tray.

2 Click **Sound Notification**.

3 Select the **Enables Event Notification** check box.

4 Select an event for a **Status Monitor** alert.

Cover open

Paper jam

Add paper

Sleep

Add toner

Toner low

Not connected

Printing

Printing completed

5 You can also add sound or speech to your chosen alert.

To add a sound file:

Clear the **Use Text to speech** check box.

The sound file text box becomes available. Type the location of a sound file (.WAV), or browse to find a file located on your computer.

To add speech:

Select **Use Text to speech**.

Type your preferred text in the text box. The Microsoft Text to Speech utility reads your typed text and plays it back in a spoken voice.

6 Click **Apply** to save your settings, click **OK** to save your settings and close the dialog box, or click **Cancel** to close the dialog box without saving any settings.

EMF Spooling

EMF (Enhanced MetaFile) is a spool file format used in printing by the Microsoft Windows operating system. When a print job is sent from an application, it is transferred to the spool file. The application writes to and the printer driver reads from the spool file simultaneously. For multiple or large documents, this quickly returns application control to the user while the printer is still printing the document.

Note: **EMF spooling** is unavailable when **Allow data passthrough** is selected in the **KPDL Settings** dialog box.

Selecting EMF Spooling

To print with EMF spooling:

1 From the **Advanced** tab, select the **EMF Spooling** check box.

2 Click **OK** and continue the printing process as usual.

Enable Client Profile

Client profile refers to profile settings saved on a client computer. You have the choice to use your local profiles or the server profiles. This feature is intended for use on the client side (PC side) in a client-server environment.

In the **Advanced** tab, clear the **Enable client profile** check box to select profiles from the server to apply to print jobs created by the driver. Server profiles are read–only.

Select the **Enable client profile** check box for using custom profiles locally in the driver.

Glossary

A

Access code A four-digit code that you must enter at the printing system's operation panel to print a Private print job.

Application based printing An administrator can associate a profile with an application so that all printing from the application uses the same profile settings. This makes profiles easier to use and ensures consistent printing from an application.

Auto configure Device settings feature that queries a printing system through the network and automatically retrieves settings for optional devices, memory, and RAM disk. Driver settings will be updated with information received from the physical printing system. Installed devices will be displayed in the Preview image.

B

Black & White With this option selected, the printer creates documents with black toner only. This feature is available in the Imaging, Quick Print, and Basic tabs.

Booklet Layout feature that prints a multi-page document in a booklet format by using a duplex unit. Two pages are printed on each side of a sheet to create a document that can be read like a book.

C

Cassette A removable plastic tray that holds a supply of paper for input to the printer.

Color optimizer Advanced tab plug-in feature that accurately matches a single color in a print job. The documents for printing can contain only one color besides black, such as a letterhead or a company logo. Color Optimizer does not work for a document with multiple colors or photographs.

Continuous tone Imaging feature that represents images, or photographs in a series of evenly graduated tones.

D

Don't use application name Don't use application name is an option to shorten the application defined job name for jobs created in Microsoft Word or PowerPoint. The file name will appear clearly in the job list.

E

EcoPrint Imaging feature that changes toner saturation, making the entire image, text and graphics, appear lighter in the printed job. The actual amount of toner used depends on the printing system mode and the type of data printed (text, graphics, or both). EcoPrint does not increase print speed. This feature is also available in the Quick Print and Basic tabs.

Edit Quick Print This feature lets you customize the Quick Print view with your preferred print job options.

Enable client profile Client profile refers to profile settings saved on a server and accessed by clients in a client/server environment. This feature in the Advanced tab lets an administrator control and distribute profiles.

G

GDI compatible mode A page description language option that accurately reproduces what is viewed on the screen using the Microsoft Graphical Device Interface (GDI) component to render the document. It generates data in a raster printing format, creating a larger printable file.

Gutter Blank space on the left side or top of a printed page that can be increased by scaling down text and graphics. When used with Duplex printing, the enlarged blank space lines up evenly on both sides of the sheet. The larger blank space is created by shifting the printable area to the right or down as much as one inch (25.4 mm).

J

Job accounting An accounting system that records and controls the number of pages printed by each account ID. Account IDs can be assigned at the printing system and stored in the driver. After account IDs are assigned, you can use the Job accounting option to print in the Job accounting mode.

Job name A Job name is a unique identifier for each print job, to help you find and print the job from the printing system's operation panel. When you send a print job using one of the Job storage (e-MPS) options, you can assign a custom name to the job or use the name of the application file.

M

Media source enumeration A Device Settings option that maintains compatibility for cassettes and feeders between old drivers and new drivers or when moving from one manufacturer to another. Compatibility creates a smooth transition for environments using macros or PRESCRIBE commands to access cassettes and feeders.

MP tray Source tray used for labels, transparencies, envelopes, and custom printing media.

Multiple pages per sheet This feature lets you print several pages on a single sheet of paper for the purpose of reviewing the document and conserving paper.

O

Operation panel The keys and display on the printing system. Use the operation panel to set options such as media type and EcoPrint, and to print jobs stored in RAM disk memory.

Optional Printer Components Optional Printer Components include Common Profiles and Plug-In Modules, and need to be installed separately from the driver installer. They are located on the Product Library disc in the Advanced Tools menu.

P

PDF The Adobe portable document format (PDF) is independent of the application software, hardware, and operating system used to create documents, and also of the output device on which they are displayed or printed.

PDL Page Description Language. This is the language used by your computer to tell the printing device how to print a document. Availability of some printing options depends on the selected PDL.

Plug-in An accessory program that integrates with the printer driver to enhance or extend the driver's capabilities.

Poster Layout feature for printing a document in a larger size than the maximum supported by the printer so the cumulative sheets can be assembled as a poster. Use

this feature to print a document in a large, eye-catching poster format, up to 25 times larger than the original document size.

PRESCRIBE An internal printer language that embeds commands into specified locations in a print job.

Print graphics as black This option prints all color graphics and text with black, rather than grayscale. This feature is intended for CAD applications.

Print preview This feature lets you view your document before you send it to print.

Print text as black Prints all color text as black. It produces faster printing of color print jobs by reducing the amount of data sent to the printer. In black and white printing, it increases the detail for light-colored text printed. White text and image colors are unaffected.

Private print Job option that saves print jobs in RAM disk memory for printing until a four-digit access code is entered. Private print jobs are deleted when the printing system is reset or turned off.

Profile A set of user defined driver settings that are saved as a group. Once saved, you can select a profile by name and apply its settings to a print job without selecting each feature individually.

Prologue/Epilogue Advanced feature that allows you to insert a macro into specific locations in the print job. An advanced user may choose to use this feature to embed a PRESCRIBE command that will call a macro to overlay PRESCRIBE form data or a graphic object, such as a logo or a signature, at a specific point in the print job.

Proof and hold Job option that prints one copy of a print job so that you can proof it before printing the remaining copies. This feature is available when RAM disk memory installed and selected in Device Settings. After the proof copy is printed and checked, remaining copies can be printed from the printing system's operation panel without sending the job again from the computer.

Q

Quick Print tab The Quick Print tab improves usability by providing an easier way to set print options. You can choose basic settings or a predefined printer profile, rather than having to go to various tabs. Quick Print settings can be captured in a group called a profile. Profiles support common printing tasks, saving you from having to repeatedly select the same settings. The Administrator can set the view of the Quick Print tab through the Installation process, or Administrator Settings in Properties.

S

Security Watermark Plug-in feature that adds watermark text and a background pattern to a print job. The text blends into the background pattern making it nearly invisible when printed. The security watermark appears only when the printed page is photocopied. A security watermark can be used to help protect against unauthorized reproduction of documents, or simply to differentiate original documents from photocopies.

SNMP Simple Network Management Protocol. The standard TCP/IP protocol for managing IP network devices, including printing devices. SNMP settings determine the level of security when using the Auto Configure feature, and prevent unauthorized printing to the SNMPv3 printing device. SNMP settings must be set in the Administrator settings in Device Settings, and in the printing system's Command Center.

Status monitor Optional feature that displays printing system status messages in the lower right corner of the window during printing. You can customize the appearance of the status monitor, and determine what messages are displayed and how by selecting preferences and notifications.

T

Transparency A clear plastic, page-sized sheet used as a printing medium.

Transparency interleaving Publishing feature that inserts a backing sheet between printed transparencies. The backing sheet, also known as an interleaf, helps keep transparencies clean and prevents them from clinging together.

Trapping This feature intentionally overlaps colors slightly so that minor problems with alignment are not noticeable when printing in color.

U

User login Registers users with a user name and password. User login provides job restriction by user, in contrast to the Job accounting feature, which assigns privileges by division or department.

W

Watermark The Watermark feature is available in the Advanced tab. A watermark is a recognizable image or pattern that can be placed on a page or throughout a document. You can choose one of the standard watermarks or create your own text.

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